0000027

DRUMMED WASTE REMOVAL PLAN

ENVIRO-CHEM SUPERFUND SITE
ZIONSVILLE, INDIANA

Prepared For:

ENVIRONMENTAL CONSERVATION AND CHEMICAL CORPORATION TRUST

Prepared By:

AWD TECHNOLOGIES, INC.
PITTSBURGH, PENNSYLVANIA

AWD PROJECT NUMBER 2455.002

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AWD TECHNOLOGIES
A Subsidiary of
The Dow Chemical Company

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1.0 INTRODUCTION

This Drummed Waste Removal Plan (Plan) has been prepared for removal of 267 55-gallon drums and miscellaneous small containers (4) that presently exist at the Enviro-Chem Superfund Site (Site) in Zionsville, Indiana.

Drums in various conditions exist at the Site. A drum inventory (for number of drums, conditions, and content) was performed in September 1994, and Appendix A of this Plan includes a table titled "Drummed Waste Contents and Conditions". All drums are currently staged on the southern concrete pad within the remedial boundary of the Site.

Appendix B of this Plan includes the compatibility test results conducted on unknown wastes identified during the above-mentioned inventory, and a representative portion of the waters (decontamination and development waters collected during previous investigations) to verify content and compatibility.

The drummed waste will be sampled and analyzed for waste characteristics to determine their waste classification (RCRA Hazardous Waste, IDEM Special Waste), and the additional waste characteristics needed for acceptance at an offsite disposal facility. Waste certificates, approvals, and profile sheets for the presently identified offsite facilities are contained in Appendix C.

The Waste Sampling and Analyses Plan is contained in Appendix D. Waste characterization analyses and profiling will be performed by Heritage Environmental Services, Inc., Indianapolis, Indiana.

AWD Technologies, Inc. (AWD) is planning to implement the drum removal field work, including oversight of the waste hauling and disposal contractors. A Health and Safety Plan (HSP) will be prepared by AWD for all field activities. The HSP used for the drum inventory will be modified to address all drum removal activities contained in this Plan.

2.0 WASTE HANDLING AND PREPARATION

Prior to handling any drums, an onsite support area, including personnel decontamination facilities, will be set up in the Site Support Zone in accordance with procedures outlined in the HSP. Additionally, the decontamination and wastewater storage pads shall be inspected as described in Section 4.0.

2.1 Drummed Waste

2.1.1 Initial Drum Inventory

An initial visual and physical survey of the drums was performed in September 1994 (see Appendix A). This survey consisted of the following:

- Drums were numbered (from D-1 through D-267) and marked with paint.
- Four small containers (5-gallon plastic) were labeled and placed on the southern concrete pad.
- The drums were classified based on their condition according to the following:
  - Deteriorated and unsafe to move (DUM)
  - Deteriorated but safe to rearrange (DSR)
  - Not deteriorated and safe for transportation (NDST)

Unlabeled or unidentifiable drums were segregated, opened, and either identified and staged or if still unidentifiable, sampled for compatibility testing. The remaining drums were staged and then opened for verification of contents which often identified multiple contents such as supernatant waters on top of drill cuttings; PPE and/or miscellaneous debris mixed in with waters and/or soils; etc. The present staging and segregation of drums is described in Section 2.1.3.

Drums that are classified as DUM were left in place and will have to be managed as described in Section 2.1.2 prior to any onsite handling.

2.1.2 DUM Drum Handling and Overpacking

It is assumed that drums needing overpacking will not contain any liquids due to their deteriorated condition.

The original drum contents prior to overpacking shall be rechecked for organic vapor concentrations using an Organic Vapor Meter (OVM), even though the drums were checked during the initial drum inventory. If the OVM scan shows any readings above background, then the Site Safety Officer (SSO) shall be immediately notified prior to any further work being performed. If OVM readings exceed levels indicated in the HSP then appropriate upgrades concerning personnel protective equipment (PPE) will be donned before work continues.

The following procedures shall be implemented for DUM drums:

- If there is PPE and/or miscellaneous solid waste present in the drum, then it will be handled according to Section 2.1.3.4. If the drum is empty, then it will be handled according to Section 2.1.3.1.

- If there are any soils, sludges, or drill cuttings present in the drum, then an overpack drum will be used to move the DUM drum to the decontamination pad for bulking according to Section 2.1.3.2. The overpack drum can then be cleaned and reused to shuttle other DUM drums to the decontamination pad.

- Chemical analysis shall be performed on a composite sample of the bulked soils, sludges, or drill cuttings to satisfy the offsite disposal facility requirements. Composite sampling and analyses is described in Appendix D, Sampling and Analyses Plan.

- Offsite transportation and disposal of the bulked drum contents shall be as described in Section 5.0.

2.1.3 Present Staging and Segregation of DSR and NDST Drums

All DSR and NDST drummed wastes have been staged on the southern concrete pad, and have been segregated based on the markings and labeling present on the drums and any compatibility testing results performed as part of the drum inventory. DUM drums were left in-place. The drums have been segregated according to the following groupings:

- Empty.
- Drill Cuttings/Soils.
- Purge/Decontamination Waters.
- Personal Protection Equipment (PPE)/Miscellaneous Solid Waste.
- Miscellaneous Materials (i.e., laboratory packs, waste chemicals, and substances)

2.1.3.1 Empty Drums

Empty drums shall be steam-cleaned if needed to meet RCRA criteria. Drum cleaning will be performed on the decontamination pad and will be necessary if residual solid materials remain in the drum. Empty drums shall be crushed and placed in the onsite solid nonhazardous container according to Section 3.2. As the onsite solid nonhazardous container nears capacity, it will be transported to an approved solid nonhazardous disposal facility according to Section 5.2.2.

2.1.3.2 Drums Containing Drill Cuttings/Soils

The drums shall be moved to the decontamination pad for bulking. The following procedures shall be implemented for drums containing drill cuttings/soils:

- An OVM scan shall be performed both prior to moving the drums and immediately after opening the drums. If the OVM scan shows any readings above background, then the Site Safety Officer (SSO) will be immediately notified prior to any further work being performed. If OVM readings exceed levels indicated in the HSP then appropriate upgrades concerning Personal Protective Equipment (PPE) will be donned before work continues.

- If there is a liquid layer present in the drum, then it will be taken to the wastewater storage pad and decanted to the onsite wastewater storage tank for bulking. The wastewater shall be transported to an approved liquid disposal facility according to Sections 5.2.3 or 5.2.4.

- After decanting the supernatant liquid, the drum containing the remaining solids will be transferred to the decontamination pad for bulking. Bulking of drill cuttings/soils will be performed by dumping the drum contents on the southern side of the decontamination pad which will be bermed off from the grated trench by means of a sandbag dike. This will allow any remaining free liquids to drain from the solids for collection in the grated trench and sump. The bulked soils pile will be covered with a waterproof tarp at the end of each workday and during any rainfall periods.

- Bulked soils will be sampled on the decontamination pad as described in Appendix D, Sampling and Analyses Plan.

- The bulked soil pile will be placed into a container suitable for storage and transportation of solid hazardous waste as the bermed area nears capacity. Onsite waste storage containers are discussed in Section 3.0.

- As the onsite solid waste container reaches capacity, it will be secured and temporarily stored onsite for future transport to an approved solid waste disposal facility according to Sections 5.2.1 or 5.2.2.

- After the drums have been emptied of their contents, they will be handled according to Section 2.1.3.1.

2.1.3.3 Drums Containing Purge and Decontamination Waters

The drums shall be moved to the wastewater storage pad for decanting into the wastewater storage tank. An OVM scan shall be performed both prior to moving the drums and immediately after opening the drums.

The following procedures shall be performed for the drums:

- If the OVM scan shows any readings above background, then the SSO will be immediately notified prior to any further work being performed. If OVM readings exceed levels indicated in the HSP then appropriate upgrades concerning Personal Protective Equipment (PPE) will be donned before work continues.

- The purge and/or decontamination waters will be decanted off and placed into a wastewater container for bulking liquids which will be located on the wastewater storage pad. The wastewater will be transported to an approved liquid disposal facility according to Sections 5.2.3 or 5.2.4.

- The bulked liquids will be sampled as described in Appendix D, Sampling and Analyses Plan.

- If after decanting there is solid waste present in the drum, this residual waste will be transferred to the decontamination pad for bulking according to Section 2.1.3.2.

- After the drum has been emptied of its contents, it will be handled according to Section 2.1.3.1.

2.1.3.4 Drums Containing Personal Protective Equipment (PPE) and Miscellaneous Solid Waste

The drums shall be moved to the decontamination pad for bulking. The drum contents shall be checked for organic vapor concentrations using an OVM both prior to moving them and immediately after they are opened.

The following procedures shall be performed for the drums:

- If the OVM scan shows any readings above background, then the SSO will be immediately notified prior to any further work being performed. If OVM readings exceed levels indicated in the HSP then appropriate upgrades concerning Personal Protective Equipment (PPE) will be donned before work continues.

- The PPE and miscellaneous solid waste will be transferred to the onsite solid waste container according to Section 3.2. As this onsite solid waste container nears capacity, it will be transported to an approved solid waste disposal facility according to Section 5.2.2.

- After the drum has been emptied of its contents, it will be handled according to Section 2.1.3.1.

2.1.3.5 Miscellaneous Waste Containers

Miscellaneous waste containers will consist of all materials and containers which cannot otherwise be grouped into any of the other drummed waste categories (Section 2.1.3.1 through 2.1.3.4). The containers shall be moved to the decontamination pad.

The miscellaneous containers and/or substances will be checked for organic vapor concentrations using an OVM. The following procedures shall be performed for the miscellaneous waste containers:

- If the OVM scan shows any readings above background, then the SSO will be immediately notified prior to any further work being performed. If OVM readings exceed levels indicated in the HSP then appropriate upgrades concerning Personal Protective Equipment (PPE) will be donned before work continues.

- If the miscellaneous waste present is in a transportable container, then it will be marked and identified.

- If miscellaneous substances require additional packaging for transportation, this will be completed.

- All miscellaneous identifiable substances will be listed on the IDEM Special Waste Certification Application and profiled for review by Waste Management to gain disposal acceptance. Acceptance may be contingent on repackaging prior to shipment.

2.2 Field Activity Waste Materials

Requirements for handling of wastes generated during drummed waste removal activities are associated with the accumulation of decontamination water and spent personal protective equipment.

2.2.1 Accumulated Wastewater

The decontamination pad sump water will be pumped directly from the sump to the onsite hazardous wastewater storage tank for disposal. This sump is capable of holding 1,250 gallons which has been estimated to be sufficient capacity for liquids generated from the soil bulking operation and general decontamination pad operations (e.g., empty drum cleaning).

2.2.2 Personal Protective Equipment

Spent personal protective equipment (PPE) accumulated during drummed waste removal activities will be collected and disposed of at an approved solid waste disposal facility according to Section 5.2.2.

All personal protective equipment will be collected at least daily.

3.0 BULKED WASTE CONTAINERS

Requirements for bulked waste containers associated with drummed waste and removal activities are as follows.

3.1 Solid Hazardous Container

The solid hazardous container will be of the type and capacity required by the approved offsite solid hazardous waste disposal facility. At a minimum, it will be watertight and have a cover (such as a tarp). The container will be placed adjacent to the decontamination pad. This container will be acquired from the disposal facility or from a licensed waste hauler which should assure compliance with Federal and state requirements.

3.2 Solid Non-Hazardous Container

The solid non-hazardous container will be of the type and capacity required by the approved offsite solid non-hazardous waste disposal facility. At a minimum, it will be watertight and have a cover (such as a tarp). The container will be placed in the Support Zone. This container will be acquired from the disposal facility or from a licensed waste hauler which should assure compliance with Federal and state requirements.

3.3 Hazardous Wastewater Storage Tanker Trucks

A hazardous wastewater storage tank will be located on the wastewater storage pad and will be of the type and capacity required by the approved hazardous liquid disposal facility. The tanker shall comply with all USDOT and IDOH requirements for hauling hazardous liquids. At a minimum, the tank shall be watertight and have a capacity of not more than 8,000 gallons, and will be acquired from a licensed wastewater transporter.

The hazardous wastewater storage tank shall store liquids generated from decontamination operations, liquids pumped from drums, and liquid from the dewatering efforts on the bulked soils.

3.4 Drum Overpacks

The use of metal drums for overpacking or repacking any suspected non-compatible wastes or miscellaneous materials will be incorporated and will comply with 49 CFR 178.

Fiberboard drums may be used for overpacking in instances where it has been pre-determined that certain materials are to be incinerated, if any.

4.0 DECONTAMINATION PAD AND WASTEWATER STORAGE PAD

4.1 Existing Facilities

Decontamination and wastewater storage pads were constructed during the "Site Preparation and Material Removal" (SPMR) phase of site work and will be used during the Drummed Waste Removal activities.

4.2 Initial Inspection of Facilities

An initial inspection of both the decontamination pad and the wastewater storage pad will be performed prior to use. Any standing water which is encountered on either the decontamination pad or the wastewater storage pad during this inspection will be pumped to the diversion channel. This water will have been derived from stormwater accumulations only.

Checks for cracks and any other defects during this initial inspection will be made, and all such defects will be identified prior to drum removal activities proceeding. Repairs will be made prior to use by AWD upon approval of the U.S. EPA.

4.3 Facilities Operations

4.3.1 Decontamination Pad

The gate valve in the manhole shall be opened prior to initial use. The decontamination pad shall be cleaned on a daily basis. Cleaning will consist, at a minimum, of the following:

- Removing all accumulated solids and/or debris from inside the trench and manhole.
- Removing all accumulated solids and/or debris from the sidewall splash guards.
- Removing all accumulated solids and/or debris from the pad's surface, except for bulked waste which will remain in the diked off area as discussed in Section 2.1.3.2, and will be tarped at the end of each day.

All solids and/or debris will be sampled and disposed of at an approved offsite solid waste disposal facility according to Sections 5.2.1 or 5.2.2.

Periodic visual inspection of the decontamination pad shall be performed. In the event that cracks are identified, they will be sealed using an approved sealant (Conseal CS-912 or equivalent).

The manhole will be pumped out as required into the wastewater storage tank located on the wastewater storage pad.

4.3.2 Wastewater Storage Pad

The wastewater storage pad will be cleaned as required, and any accumulation in the HDPE sump will be pumped out into the wastewater storage tank located on the wastewater storage pad.

4.4 Temporary Closure of Facilities

4.4.1 Decontamination Pad

At the completion of work activities associated with this work, temporary closure of the decontamination pad will be performed as follows:

- The pad's surface will be cleaned of all solids and/or debris.
- The sidewall splash guards will be cleaned of all solids and/or debris.
- All residual solids and/or debris from inside the trench and manhole will be removed.
- All water from inside the trench and manhole will be removed.
- The gate valve inside the manhole will be closed.

All solids and/or debris will be bulked and disposed of at an approved solid waste disposal facility according to Sections 5.2.1 or 5.2.2.

All waters will be pumped into the wastewater storage tank located on the wastewater storage pad.

4.4.2 Wastewater Storage Pad

At the completion of work activities, the temporary closure of the wastewater storage pad will be performed by removing all water from the HDPE sump. This water will be pumped into the wastewater storage tank.

5.0 OFFSITE TRANSPORTATION AND DISPOSAL

5.1 Offsite Transportation and Disposal Requirements

Requirements for offsite transportation and disposal associated with drummed waste removal activities will be based on characterization of the waste types according to the Sampling and Analyses Plan (Appendix D).

All transportation-related liability insurance, and all Federal, state, and local permits and licenses required will be assured through the use of approved and recognized transportation and disposal facilities. Transportation will be arranged and conducted by the actual disposal facility when practicable and economical, following completion of field bulking activities.

5.2 Offsite Disposal Facilities

5.2.1 Solid Hazardous Waste Disposal Facilities

Solid hazardous waste will be disposed of at a RCRA permitted disposal facility in the United States and will be transported and disposed of at the selected solid hazardous waste disposal facility unless that facility becomes "out of compliance" with present RCRA requirements.

The following RCRA permitted solid hazardous waste disposal facility will be used to dispose of any solid hazardous waste identified through analytical testing:

Chemical Waste Management, Inc.
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, Indiana 46806

All wastes will be properly manifested for transportation and disposal and comply with all Federal and state laws and regulations concerning waste transportation and disposal. The ECC Trust shall be responsible for obtaining the generator identification number from U.S. EPA prior to offsite shipment.

5.2.2 Solid Nonhazardous Waste (Special Waste) Disposal Facilities

All solid nonhazardous waste will be disposed of at an approved IDEM permitted solid waste landfill in the United States and will be transported and disposed of at the selected landfill unless that facility becomes "out of compliance" with present requirements.

The following approved IDEM permitted solid waste landfill will be used to dispose of nonhazardous solid waste:

Waste Management, Inc.
Danville Recycling and Disposal Facility
123 Twin Bridges Road
Danville, Indiana 46122

All wastes will be properly manifested for transportation and disposal and comply with all Federal and state laws and regulations concerning waste transportation and disposal.

5.2.3 Liquid Hazardous Waste Disposal Facilities

All liquid hazardous waste will be disposed of at a RCRA permitted disposal facility in the United States and will be transported and disposed of at the selected liquid waste disposal facility unless that facility becomes "out of compliance" with present RCRA requirements.

The following RCRA permitted liquid hazardous waste disposal facility will be used to dispose the liquid hazardous waste:

Clean Harbors of Chicago
11800 South Stoney Island Avenue
Chicago, Illinois 60617

All wastes will be properly manifested for transportation and disposal and comply with all Federal and state laws and regulations concerning waste transportation and disposal. The ECC Trust will be responsible for obtaining the generator identification number from U.S. EPA prior to offsite shipment.

5.2.4 Liquid Nonhazardous Waste Disposal Facilities

All liquid nonhazardous waste will be disposed of at an IDEM permitted disposal facility in the United States and will be transported and disposed of at the selected liquid nonhazardous waste disposal facility unless that facility becomes "out of compliance" with present requirements.

The following approved IDEM permitted liquid nonhazardous waste disposal facility will be used to dispose the liquid nonhazardous waste:

Clean Harbors of Chicago
11800 South Stoney Island Avenue
Chicago, Illinois 60617

All wastes will be properly manifested for transportation and disposal and comply with all Federal and state laws and regulations concerning waste transportation and disposal.

5.3 Waste Certifications and Generator's Waste Profile Sheets

Upon completion of required analytical testing on the liquid and solid wastes, a Waste Certification Application will be submitted to IDEM for the solid wastes (the liquid waste does not require application). The Generator's Waste Profile Sheets will be submitted to the agencies/facilities disposing of the liquid and solid wastes. The applications and profile sheets must be accepted before the wastes may be transported and disposed. Copies of the Waste Certification Application and Generator's Waste Profile Sheets are included in Appendix C - Waste Certifications, Approvals, and Profile Sheets. A timeframe of 6 to 8 weeks is expected between analytical testing and approval for disposal of the wastes. This period may change at the discretion of the disposal facilities.

5.4 Driver Training

An instructional briefing for all drivers and transportation subcontractors will be held before entrance to the support zone. The briefing will cover the following topics at a minimum:

- Onsite routing.
- Weighing and weight tickets.

- Procedures for cargo compartment lining, tarping, and decontamination.
- Health and safety including respiratory requirements if any.

5.5 Notification of Disposal Facility

AWD shall notify disposal facilities upon departure of each transport vehicle from the site, supplying the following information as a minimum:

- Driver Name
- Truck Identification
- Designation of materials contained in load
- Estimated time of arrival at disposal facility

APPENDIX A

DRUMMED WASTE INFORMATION
(INVENTORY AND SEGREGATION PERFORMED SEPTEMBER 26 THROUGH 30, 1994)

TABLE 1

DRUMMED WASTE CONTENTS AND CONDITION
PAGE 1 OF 12

Drum Number	Condition	Waste Found
001*	DSR	Water
002*	NDST	Solid
003*	DUM	Solid
004*	DSR	Water
005*	NDST	Solid
006	NDST	PPE and trash
007	DSR	Sample containers
008*	NDST	Solid
009*	DSR	Solid
010*	DUM	Solid and Tyvek
011*	DUM	Solid
012	NDST	Plastic with water
013	NDST	Liner with water
014*	NSR	Water
015	NDST	Plastic
016	NDST	Water
017	NDST	Polyliner with water
018	NDST	Polyliner with water
019	NDST	Polyliner with water
020	NDST	Polyliner with water
021*	NDST	Polyliner with water
022	NDST	Trash
023	DSR	Polyliner with water
024	NDST	Plastic

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 2 OF 12		
Drum Number	Condition	Waste Found
025*	NDST	Plastic with water and soil trash
026	NDST	Plastic with water
027	DSR	Plastic with water
028	DSR	Water
029	DSR	Water
030	DSR	Water
031	DSR	Water
032	NDST	Plastic with water
033	DSR	Plastic
034	NDST	Plastic
035	DSR	Water
036	DSR	Water
037	DSR	Empty
038	DSR	Empty
039	DSR	Water
040	NDST	PPE
041	DSR	Soil
042	NDST	Soil
043	DSR	Soil
044	NDST	Portland cement
045	DSR	Water
046	NDST	Soil
047	DSR	Soil
048	NDST	PPE

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 3 OF 12		
Drum Number	Condition	Waste Found
049	NDST	Soil
050	NDST	Empty
051	DSR	Empty
052	DSR	Plastic
053	DSR	Soil
054	NDST	PPE
055	NDST	Trash
056	NDST	Soil
057	DSR	Water
058	DSR	Water
059	DUM	Soil
060	DSR	Soil
061	DSR	Empty
062	NDST	Plastic
063	NDST	Soil
064	DSR	PPE
065	DSR	Trash
066	NDST	Trash
067	DSR	PPE
068	DSR	Soil
069	DSR	PPE
070	NDST	Water
071	DSR	Soil
072	NDST	Soil

TABLE 1

DRUMMED WASTE CONTENTS AND CONDITION
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Drum Number	Condition	Waste Found
073	DSR	Soil
074	DUM	Water with plastic
075	DSR	Empty
076	NDST	Soil
077	NDST	Soil
078	DSR	Soil
079	DSR	Water
080	NDST	PPE
081	NDST	Plant food
082	DSR	Trash
083	NDST	Soil
084*	NDST	Plant food and solid
085	NDST	Water
086*	Overpack (55-gallon) NDST	White chemical solid
087	Overpack (85-gallon) NDST	Debris and plant food
088	NDST	Plant food
089	NDST	Debris
090	NDST	PPE
091	NDST	Grass seed
092	NDST	Trash
093	DSR	Water
094	DSR	Water
095	NDST	Water
096	NDST	Water

TABLE 1

DRUMMED WASTE CONTENTS AND CONDITION
PAGE 5 OF 12

Drum Number	Condition	Waste Found
097	DSR	Water
098	DSR	Decontamination water
099	DSR	Water
100	DSR	Decontamination water
101	DSR	Water
102	DSR	Water
103	DUM	Water
104	DSR	Water
105	DSR	Water
106	DSR	Decontamination water
107	DSR	Decontamination water
108	DSR	Decontamination water with plastic
109	DSR	Decontamination water
110	DSR	Purge water
111	DSR	Purge water
112	DSR	Development water
113	DSR	Water
114	DSR	Water
115	DSR	Water
116	DSR	Water
117	DSR	Water
118	DSR	Water
119	DSR	Water

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 6 OF 12		
Drum Number	Condition	Waste Found
120	DSR	Water
121	DSR	Water
122	DSR	Water
123	DSR	Water
124	DSR	Water
125	NDST	Development water
126	DSR	Water
127	DSR	Water
128	DSR	Water
129	DSR	Water
130	DSR	Water
131	NDST	Water
132	NDST	Water
133	DSR	Water
134	NDST	Water
135	DSR	Water
136	DSR	Water
137	DSR	Water
138	DSR	Development water
139	DSR	Water
140	DSR	Water
141	NDST	Water
142	NDST	Water
143	NDST	Soil

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 7 OF 12		
Drum Number	Condition	Waste Found
144	DSR	Plastic
145	NDST	Plastic
146	NDST	Plastic
147	NDST	Plastic
148	NDST	Plastic
149	DSR	Plastic
150	NDST	Plastic
151	DSR	Plastic
152	DSR	Plastic
153	NDST	Plastic
154	NDST	Plastic
155	DSR	PPE
156	NDST	Plastic
157	NDST	Plastic
158	DSR	Plastic
159	NDST	Plastic
160	NDST	Plastic
161	DSR	Plastic
162	DSR	Plastic
163	NDST	Plastic
164	DSR	Trash
165	DSR	Plastic
166	DSR	Trash
167	NDST	Tyvek

TABLE 1

DRUMMED WASTE CONTENTS AND CONDITION
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Drum Number	Condition	Waste Found
168	NDST	Tyvek
169	NDST	PPE
170	DSR	Tyvek
171	NDST	Tyvek
172	NDST	PPE
173	DSR	Trash
174	NDST	Insulation
175	NDST	Insulation
176	NDST	Trash
177	NDST	Tyvek
178	NDST	Tyvek
179	NDST	Tyvek
180	NDST	Tyvek
181	NDST	Tyvek
182	NDST	Tyvek
183	NDST	Tyvek
184	NDST	Insulation
185	NDST	Insulation, growing fungus
186	NDST	Insulation
187	NDST	Insulation
188	NDST	Insulation
189	NDST	Insulation
190	NDST	Tyvek
191	NDST	Tyvek

TABLE 1

DRUMMED WASTE CONTENTS AND CONDITION
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Drum Number	Condition	Waste Found
192	NDST	Tyvek
193	DUM	Soil
194	NDST	Water
195	DSR	Water
196	NDST	Water
197	DSR	Water
198	DSR	Development water
199	DSR	Water
200	DSR	Water
201	DSR	Development water
202	DSR	Water
203	NDST	Scale
204	NDST	Debris
205	DUM	Soil
206	NDST	Soil
207	NDST	Soil
208	NDST	Decontamination soil
209	DSR	Soil and water
210	NDST	Soil and water
211	NDST	Soil and water
212	NDST	Soil and plastic
213	NDST	Decontamination water
214	NDST	Soil
215	NDST	Soil

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 10 OF 12		
Drum Number	Condition	Waste Found
216	DUM	Soil
217	DSR	Soil
218	NDST	Soil
219	NDST	Soil
220	DSR	Soil
221	DSR	Soil
222	DSR	Soil
223	NDST	Soil
224	NDST	Soil
225	DUM	Soil
226	NDST	Soil
227	NDST	Soil
228	DSR	Soil
229	NDST	Soil
230	NDST	Soil
231	DSR	Soil boring soil
232	NDST	Soil boring soil
233	NDST	Polyliner soil
234	NDST	Soil
235	NDST	Soil
236	NDST	Soil boring soil
237	DSR	Soil
238	DSR	Plastic with soil
239	DSR	Soil

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 11 OF 12		
Drum Number	Condition	Waste Found
240	DSR	Soil
241	NDST	Soil boring soil
242	NDST	Soil boring soil
243	NDST	Soil
244	DSR	Development water
245	NDST	Soil
246	DSR	Soil and water
247	DSR	Soil
248	DSR	Water and soil
249	NDST	Soil
250	NDST	Soil
251	DSR	Soil
252	NDST	Soil with plastic
253	NDST	Soil
254	NDST	Soil with plastic
255	NDST	Soil with water and plastic
256	NDST	Soil
257	NDST	Soil
258	NDST	Soil boring soil
259	NDST	Soil
260	NDST	Soil
261	DSR	Sample jars - full
262	NDST	Soil boring soil
263	NDST	Soil boring soil

TABLE 1 DRUMMED WASTE CONTENTS AND CONDITION PAGE 12 OF 12		
Drum Number	Condition	Waste Found
264	DSR	Trash
265	DSR	Soil and water
266	NDST	Soil
267	NDST	Soil

Notes

* Indicates sample was submitted for compatibility testing (see Results - Appendix B).

MISCELLANEOUS WASTE CONTAINERS		
5 Gallon Can	NDST	Weed killer
5 Gallon Can	NDST	Miscellaneous herbicides
5 Gallon Can	NDST	Tar
5 Gallon Can	NDST	Miscellaneous herbicides

APPENDIX B

CHEMICAL ANALYSES OF ENVIRONMENTAL SAMPLES

COMPATIBILITY TESTING RESULTS

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323383
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 26-SEP-94 14:20	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 001
DESCRIPTION: ECC-DF-DA-01
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**CLEAR/SLIGHTLY ORANGE*
***LIQUID*
****TRANSPARENT, NON-VISCOUS WITH BROWN PARTICULATE SEDIMENT, HOMOGENOUS*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323384
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 26-SEP-94 14:25	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 002
DESCRIPTION: ECC-DW-DW-01
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	10		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NOT FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	2		
PHYSICAL APPEARANCE	***		

**BROWN*
***LIQUID/SOLID*
****NON-HOMOGENOUS, OPAQUE WATER ON TOP OF SANDY SOIL LAYER, NON-VISCOUS*

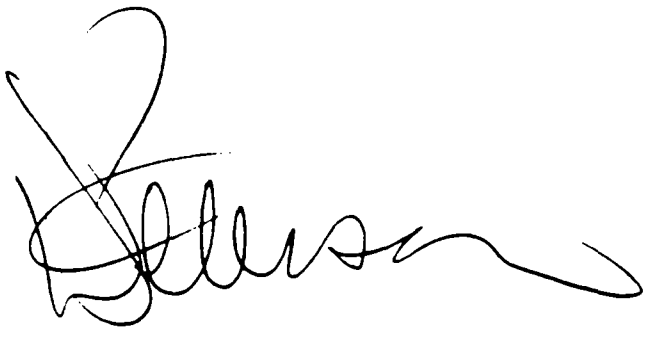
Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Sample Comments

without the written approval of the lab.



Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323385
	Complete 28-SEP-94	PO Number	
	Printed 28-SEP-94	Sampled 26-SEP-94 15:05	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 003
DESCRIPTION: ECC-D[illegible]-DW-02
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND!

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND!

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**BROWN*
***SOLID*
****HOMOGENOUS SOIL SAMPLE, CONSISTENCY OF THICK MUD*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323385
	Complete: 28-SEP-94	PO Number:	
	Printed: 19-OCT-94	Sampled: 26-SEP-94 15:05	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 003
DESCRIPTION: ECC-DV-DW-02
ELI LILLY-CLINTON LABS: .

[illegible]

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

*MATERIAL IS NON-FLAMMABLE.

[illegible]

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

*BROWN
**SOLID
***HOMOGENOUS SOIL SAMPLE, CONSISTENCY OF THICK MUD

Sample Comments

THE pH INDICATES THAT THE OXIDIZER RESULTS MAY BE BIASED; FALSE POSITIVES MAY BE PRODUCED BY INTERFERENCE AT pH OF 7 OR HIGHER.
AMENDED REPORT TO ADD THE ABOVE COMMENT, 19-OCT-94 GAB.

* See Note for Parameter
** See Note for Parameter
*** See Note for Parameter
NEG Negative
POS Positive

Sample Comments

Sample chain of custody number 23449.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323386
	Complete 28-SEP-94	PO Number	
	Printed 28-SEP-94	Sampled 26-SEP-94 15:10	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 004
DESCRIPTION: ECC-DF-DA-02
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	10		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**CLEAR*
***LIQUID*
****HOMOGENOUS, NON-VISCOUS LIQUID WITH A LITTLE BROWN FLOATING PARTICLES*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323387
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 26-SEP-94 15:20	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 005
DESCRIPTION: ECC-DB-DA-03
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**BROWN*
***SLUDGE*
****VISCOUS, WET, HOMOGENOUS SLUDGE*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG *Negative*

Sample chain of custody number 23449.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323388
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 26-SEP-94 15:35	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 008 U
DESCRIPTION: ECC-DW-DW-03
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	8.0		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	2		
PHYSICAL APPEARANCE	***		

**BROWN*
***LIQUID/SOLID*
****NON-HOMOGENOUS OPAQUE WATER (DIRTY) ON TOP OF SANDY SOIL LAYER*
NON-VISCOUS.

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG *Negative*
POS *Positive*

Sample chain of custody number 23449.

Sample Comments

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323389
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 26-SEP-94 16:00	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 009 U
DESCRIPTION: ECC-DW-DW-04
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	10		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**WHITE/GREY*
***SOLID*
****HOMOGENOUS, WET SOIL-LIKE SAMPLE*
CONSISTENCY OF THICK MUD

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Sample Comments

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323389
	Complete: 28-SEP-94	PO Number:	
	Printed: 19-OCT-94	Sampled: 26-SEP-94 16:00	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 009
DESCRIPTION: ECC-DV-DW-04
ELI LILLY-CLINTON LABS: .

[illegible] PARAMETERS - GAS

Parameter	Result	Det. Limit	Units
PH	10		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

*MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE - GAS

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

*WHITE/GREY
**SOLID
***HOMOGENOUS, WET SOIL-LIKE SAMPLE
CONSISTENCY OF THICK MUD

Sample Comments

THE pH INDICATES THAT THE OXIDIZER RESULTS MAY BE BIASED; FALSE POSITIVES MAY BE PRODUCED BY INTERFERENCE AT pH OF 7 OR HIGHER.
AMENDED REPORT TO ADD THE ABOVE COMMENT, 19-OCT-94 GAB.

* See Note for Parameter
** See Note for Parameter
*** See Note for Parameter
NEG Negative

Sample Comments

POS Positive

Sample chain of custody number 23449.

Quality Assurance Officer: G A Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323390
	Complete 28-SEP-94	PO Number	
	Printed 28-SEP-94	Sampled 26-SEP-94 16:05	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 010
DESCRIPTION: ECC-DW-DW-05
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**BROWN*
***SOLID*
****HOMOGENOUS, SOIL-LIKE SAMPLE, A THICK MUD.*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323390
	Complete 28-SEP-94	PO Number	
	Printed 19-OCT-94	Sampled 26-SEP-94 16:05	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 010
DESCRIPTION: ECC-DV-DW-05
ELI LILLY-CLINTON LABS: .

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		

*MATERIAL IS NON-FLAMMABLE.

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

*BROWN
**SOLID
***HOMOGENOUS, SOIL-LIKE SAMPLE, A THICK MUD.

Sample Comments

THE pH INDICATES THAT THE OXIDIZER RESULTS MAY BE BIASED; FALSE POSITIVES MAY BE PRODUCED BY INTERFERENCE AT pH OF 7 OR HIGHER.
AMENDED REPORT TO ADD THE ABOVE COMMENT, 19-OCT-94 GAB.

* See Note for Parameter
** See Note for Parameter
*** See Note for Parameter
NEG Negative
POS Positive

Sample Comments

Sample chain of custody number 23449.

Quality Assurance Officer: GA Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323391
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 26-SEP-94 16:15	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 011 U
DESCRIPTION: ECC-D[illegible]-DW-06
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 INDI

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 INDI

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**BROWN*
*** SOLID*
****DRY, HOMOGENOUS SOIL SAMPLE NON-VISCOUS*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23449.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	26-SEP-94	3172	A323391
	Complete 28-SEP-94	PO Number	
	Printed 19-OCT-94	Sampled 26-SEP-94 16:15	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: 011
DESCRIPTION: ECC-DV-DW-06
ELI LILLY-CLINTON LABS: .

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	POS		
CYANIDE	NEG		
IGNITABILITY	*		

*MATERIAL IS NON-FLAMMABLE.

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

*BROWN
** SOLID
***DRY, HOMOGENOUS SOIL SAMPLE NON-VISCOUS

Sample Comments

THE pH INDICATES THAT THE OXIDIZER RESULTS MAY BE BIASED, FALSE POSITIVES MAY BE PRODUCED BY INTERFERENCE AT pH OF 7 OR HIGHER.
AMENDED REPORT TO ADD THE ABOVE COMMENT, 19-OCT-94 GAB.

* See Note for Parameter
** See Note for Parameter
*** See Note for Parameter
NEG Negative
POS Positive

Sample Comments

Sample chain of custody number 23449.

Quality Assurance Officer: G A Busch

TOTAL P.05

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	27-SEP-94	3172	A323471
	Complete: 28-SEP-94	PO Number:	
	Printed: 28-SEP-94	Sampled: 27-SEP-94 12:55	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: D014
DESCRIPTION: ECC-DU-DA-004
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	6.0		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**ORANGE*
***LIQUID*
****OPAQUE LIQUID WITH SUSPENDED SOLIDS, HOMOGENOUS, NON-VISCOUS*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23450.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	27-SEP-94	3172	A323472
	Complete 28-SEP-94	PO Number	
	Printed 28-SEP-94	Sampled 27-SEP-94 13:05	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: D021
DESCRIPTION: ECC-DU-DA-005
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	7.0		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**SLIGHTLY ORANGE*
***LIQUID*
****TRANSLUSENT LIQUID WITH SUSPENDED SOLIDS, HOMOGENOUS, NON-VISCOUS*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23450.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	27-SEP-94	3172	A323473
	Complete 28-SEP-94	PO Number	
	Printed 28-SEP-94	Sampled 27-SEP-94 14:25	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE ID: D025
DESCRIPTION: ECC-DU-DA-007
ELI LILLY-CLINTON LABS: UST PROJECT

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 27-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	8.0		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: B. PRIDEMORE Analysis Date: 27-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

**BROWN*
***LIQUID/SOLID*
****NON-HOMOGENOUS, OPAQUE WATER, LAYER ON TOP OF SANDY SOIL*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG *Negative*
POS *Positive*

Sample chain of custody number 23450.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	28-SEP-94	3172	A323583
	Complete: 29-SEP-94	PO Number:	
	Printed: 29-SEP-94	Sampled: 28-SEP-94 11:20	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE I.D.: D084
DESCRIPTION: ECC-SU-DW-008
PROJECT: ECC SUPERFUND SITE

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 28-SEP-94 Test: 6999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	6		
SOLUBILITY IN WATER	NEG		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: E. WALSH Analysis Date: 28-SEP-94 Test: 6622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

** BROWN*
*** SOLID*
**** HOMOGENOUS SAND WITH VERY, VERY SMALL ROUND PEBBLES.*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG *Negative*

Sample chain of custody number 23451.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	28-SEP-94	3172	A323584
	Complete: 29-SEP-94	PO Number:	
	Printed: 29-SEP-94	Sampled: 28-SEP-94 11:22	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE I.D.: D08 (UNIT 6)
DESCRIPTION: ECC-SU-DW-009
PROJECT: ECC SUPERFUND SITE

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 28-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	7		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

MATERIAL IS NON-FLAMMABLE.

PHYSICAL APPEARANCE SAS

Analyst: E. WALSH Analysis Date: 28-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

** FLAT WHITE*
*** SOLID*
**** HOMOGENOUS CLUMPY POWDERY SOLIDS*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23451.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	28-SEP-94	3172	A323585
	Complete 29-SEP-94	PO Number	
	Printed 29-SEP-94	Sampled 28-SEP-94 11:45	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE I.D.: D108
DESCRIPTION: ECC-DPW-DA-001
PROJECT: ECC SUPERFUND SITE

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 28-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	6		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: E. WALSH Analysis Date: 28-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

** LIGHT BROWN*
*** LIQUID*
**** OPAQUE NONVISCOUS DENSE SUSPENDED SOLIDS*

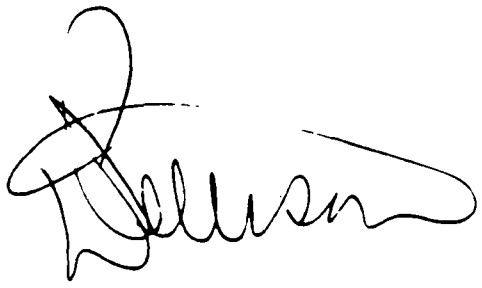
Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23451.

Sample Comments

without the written approval of the lab.



Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	28-SEP-94	3172	A323586
	Complete 29-SEP-94	PO Number	
	Printed 29-SEP-94	Sampled 28-SEP-94 11:55	

Report To

JOHN HARRIS
AWD TECHNOLOGIES, INC.
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Bill To

ACCOUNTS PAYABLE
AWD TECHNOLOGIES, INCORPORATED
PENN CENTER WEST
BUILDING 3, SUITE 300
PITTSBURGH, PA 15276

Sample Description

SAMPLE I.D.: D110
DESCRIPTION: ESS-DPW-DA-002
PROJECT: ECC SUPERFUND SITE

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 28-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	7		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: E. WALSH Analysis Date: 28-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

** YELLOW BROWN*
*** LIQUID*
**** TRANSLUCENT NONVISCOUS DENSE SUSPENDED SOLIDS*

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
*** *See Note for Parameter*
NEG Negative
POS Positive

Sample chain of custody number 23451.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, INC. COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	28-SEP-94	3172	A323587
	Complete 29-SEP-94	PO Number	
	Printed 29-SEP-94	Sampled 28-SEP-94 12:00	

Report To	Bill To
JOHN HARRIS AWD TECHNOLOGIES, INC. PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276	ACCOUNTS PAYABLE AWD TECHNOLOGIES, INCORPORATED PENN CENTER WEST BUILDING 3, SUITE 300 PITTSBURGH, PA 15276

Sample Description

SAMPLE I.D.: D111
DESCRIPTION: ECC-DPW-DA-003
PROJECT: ECC SUPERFUND SITE

WASTE COMPATABILITY SAS

Analyst: A. WOOD Analysis Date: 28-SEP-94 Test: G999.0.0 IND1

Parameter	Result	Det. Limit	Units
PH	6		
SOLUBILITY IN WATER	POS		
KI STARCH PAPER	NEG		
CYANIDE	NEG		
IGNITABILITY	*		
CHLORINATED HYDROCARBON	NEG		

**MATERIAL IS NON-FLAMMABLE.*

PHYSICAL APPEARANCE SAS

Analyst: E. WALSH Analysis Date: 28-SEP-94 Test: G622.0.0 IND1

Parameter	Result	Det. Limit	Units
COLOR	*		
PHYSICAL STATE	**		
NUMBER OF LAYERS	1		
PHYSICAL APPEARANCE	***		

** DARK TAN*
*** LIQUID*
**** OPAQUE NONVISCOUS DENSE SUSPENDED SOLIDS WITH SAME BOTTOM SEDIMENT.*

Sample Comments

*	*See Note for Parameter*
**	*See Note for Parameter*
***	*See Note for Parameter*
NEG	*Negative*
POS	*Positive*

Sample chain of custody number 23451.

Sample Comments

without the written approval of the lab.

Quality Assurance Officer: _____

APPENDIX C

WASTE CERTIFICATIONS, APPROVALS, AND PROFILE SHEETS

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM)
SPECIAL WASTE FEE TRANSMITTAL FORM AND
SPECIAL WASTE CERTIFICATION APPLICATION

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SPECIAL WASTE FEE TRANSMITTAL FORM

INSTRUCTIONS:

This form shall be used to transmit fees for all solid waste management special waste certification applications pursuant to 329 IAC 2-21-1 and is to accompany all payments. Make check or money order payable to the INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. Upon completion, return this form, the appropriate fees, and the certification application to the following address:

CASHIER, Room N1324
Indiana Department of Environmental Management
100 N. Senate Avenue
P. O. Box 7060
Indianapolis, IN 46206-7060

SECTION A. APPLICANT(S) INFORMATION		
Responsible Party:		
Mailing Address:	Street	City
State	Zip Code	AC-Telephone Number:
Generating Facility Name and County:		

SECTION B. SPECIAL WASTE CERTIFICATION FEE SCHEDULE

SPECIAL WASTE CERTIFICATIONS (GENERATOR FEE). . . . . $250.00/Waste Stream

Waste Stream(s): (Please list exactly as named on the Solid Waste Certification Application)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

(Attach additional sheet if necessary)

TOTAL AMOUNT SUBMITTED: _____ (Check # or Money Order #) _____ No. of Waste Streams X $250 = $ _____ TOTAL

Account #3240-412600-140000

Special Waste Certification Application

Cashier, Room N1324
Indiana Department of Environmental Management
Office of Solid and Hazardous Waste Management
100 N. Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Telephone: 317/232-3111

For Office Use Only
Reviewer _____

1. Generator Fee

Generator Fee: $250.00 per waste stream PAID BY: _____
(Check # or Money Order #)

TOTAL AMOUNT SUBMITTED: $_____

2. Generator Information

Generator Facility Location	Generator Mailing Address
Name	Name
Address	Address
(City) (State) (Zip)	(City) (State) (Zip)
Country	Country
Technical Contact and Telephone #	Technical Contact and Telephone #

EPA Identification Number:

3. Contractor Information

Applicant (if other than generator)	Proposed Disposal Site
Name	Name Opp No.
Address	Address
(City) (State) (Zip)	(City) (State) (Zip)
Country	Country
Technical Contact and Telephone #	Technical Contact and Telephone #

4. Regulatory Issues

Are any of the following occurring at your facility: (please check)

CERCLIS Clean-up ☐ Hazardous/Solid Waste Enforcement ☐ Corrective Action ☐

Air/Water Issues ☐ No Issues ☐ Other _____

For Office Use Only
Waste Stream Case No.

5. Waste Information
Waste Name:
Anticipated annual quantity (cubic yards, drums, other):
Disposal frequency (weekly, monthly, annually, one time, etc.):
Type of waste containers (drums, bulk, rolloffs, etc.):

6. Sampling and Laboratory Information	
Laboratory	**Sample Collector**
Name	Name
Address	Address
/ /	/ /
(City) (State) (Zip)	(City) (State) (Zip)
Technical Contact and Telephone#	Telephone #

7. Previous Certification Information
Has this waste been certified previously? Yes___ No___ Date:_____ Certification No._____
What is the date of the last lab analysis?
Have there been any changes in the process, volumes, or raw materials since the last certification? Yes ____ No ____ If yes, attach a brief explanation.
Are you aware of any other facts or circumstances which have, or could have, altered the physical characteristics or chemical composition of the waste? Yes ____ No ____ If yes, provide a brief explanation.

For Office Use Only
Waste Stream Case No. _____

8. Waste Characterization

Is the waste a listed hazardous waste as defined in 329 IAC 3.1? Yes___ No___

Does this waste contain PCB's or PCB items as defined in 329 IAC 4? Yes___ No___

Physical Characteristics: (attach MSD Sheets if Available)

Physical state:

Percent solids %

Fire, explosion, or spontaneous ignition hazard? Yes___ No___

Does this waste contain: Free liquids?___ Asbestos?___ Solvents?___

Odor? None___ Mild___ Strong___ Describe:

Analytical Information

Sampling: Date sample was collected: _____ Sample type: grab___ composite___

Was a sampling plan used? Yes___ No___ If so, attach a copy.

Is the sample representative of the waste?

Results: attach original laboratory documentation i.e. TCLP (metal, pesticide, organics), corrosivity, ignitability, reactivity, or other. (QA/QC upon request)

9. Process Description (attach additional pages if necessary)

10. Generator Signature

I hereby certify that the information in this application is true and accurate to the best of my knowledge, and that this waste is not a hazardous waste as defined in 329 IAC 3.1.

Signature (type or print name) Date

Title

SPECIAL WASTE APPLICATION INSTRUCTIONS (page 1 of 2)

1.GENERATOR FEE: Pursuant to Senate Bill 417, a generator fee of $250.00 must be submitted with **each** application. An application must be submitted for each waste stream. A waste stream is defined by its point of generation not by its storage or disposal. For example, a pile containing various waste streams is not be considered one waste stream. List the total amount of money submitted and the check or money order number.

2.GENERAL INFORMATION: Provide generator name, facility location, and mailing address. Facility location is the street address of the generating facility. This address will appear on the approval. A mailing address should be provided if different from the facility location. Provide an EPA ID number if applicable (i.e. the applicant generates any hazardous waste).

3.CONTRACTOR INFORMATION: Provide a name, address, and contact for any contractor or consultant whom may be involved in the application process and the proposed disposal facility. The Operating Plan Permit Number (OPP No.) for the disposal facility must also be included. The IDEM will attempt to approve the disposal site selected by the generator. However, depending on handling concerns and characteristics of the waste and the disposal facility's operational, design, and geological considerations, the generator may be denied access to a particular site.

4.REGULATORY ISSUES: Indicate, by checking the appropriate boxes, whether the generating facility has any issues pending with other regulatory programs or agencies. Of particular importance are any activities that may effect the status of this waste.

5.WASTE INFORMATION: Provide a waste name, the anticipated volume to be disposed in one year, the frequency of disposal, and the type of container used for disposal.

6.SAMPLING AND LABORATORY INFORMATION: Provide a name, address, and contact for the laboratory which performed any analytical work for the generator. The individual(s) responsible for sample collection should also be included with address and phone number.

7.PREVIOUS CERTIFICATION INFORMATION: Indicate whether the waste has been certified previously by this Office. If this is the case, indicate the previous certification number and expiration date, and whether there have been any changes in the process or raw materials generating the waste, any other circumstances that may have altered the waste characteristics, or any change in volume to be disposed. If there have been changes, please explain.

8.WASTE CHARACTERIZATION:

Physical Characteristics: For physical state, indicate not only whether it is a solid or semi-solid but be specific, such as particle size (i.e. powder, granular, chunks), temperature, etc.

Analytical Information: The generator must demonstrate that a waste is not hazardous under 329 IAC 3.1 in order to dispose of the waste as a Special or Solid Waste. The generator shall indicate that the waste is not hazardous by listing or by characteristics. An analysis is usually required to demonstrate that the waste is not hazardous due to characteristics. Analysis for hazardous characteristics include ignitability (D001), corrosivity (D002), reactivity (D003), Toxicity Characteristic metals, pesticides, and organic compounds (D004-D043). Only those hazardous characteristics that are a potential concern need to be tested. A generator may use their knowledge of the waste stream and generating process to make a waste determination in lieu of testing. In this case, the generator must supply the documentation, such as Material Safety Data Sheets (MSDS), used to make such a determination. However, further analysis shall be required if the IDEM determines that it is necessary in order to properly characterize the waste. Staff may also require other parameters, such as PCB's, other metals, chlorides, phenols, etc. be tested in order to determine the potential hazards associated with the waste

and appropriate disposal requirements and facility.

Sampling: Provide the date the sample was collected and the type of sample taken. Include any other information, such as sampling plans, which would demonstrate that the sampling is representative of the waste. In order to demonstrate that a waste is non-hazardous, each waste stream shall be sampled independently. Again, a waste stream is identified by point of generation, not by its storage or disposal. If the generator wishes to composite different waste streams into one sample for analysis, a written justification for such compositing shall be provided. If the IDEM determines the composite to be inappropriate, re-analysis shall be required.

Results: A copy of original laboratory analyses shall be provided with the application. (Complete QA/QC and chain-of custody shall be provided upon request). Please make sure that all analyses are properly identified. An application will not be reviewed without this information.

If you have any questions concerning sampling and analysis, please contact staff of the Solid Waste Permits Section at (317) 232-4473.

9.PROCESS DESCRIPTION: In order for staff to determine whether an appropriate waste determination has been made, it is required that a comprehensive description of the process generating the waste be provided. Also, include a list of all the raw materials or chemicals used in the process. If needed, attach a separate sheet for this section. (If this waste is the result of a clean-up from a spill or release of a material, provide a complete description of the process that generated material and any sampling plans or site assessments/investigations if performed. Indicate whether the release was reported to the Office of Environmental Response and provide the Incident Number.) Failure to provide this information will result in a delayed review of your application as staff attempt to obtain such information.

10.GENERATOR SIGNATURE: A designated responsible individual of the generator's staff shall sign the application. A contractor may prepare the application for the generator, but the application is to be signed by the generator. In lieu of a generator signature, the contractor may sign the application if legal permission to do so is given to the contractor. A letter giving consent, with the original signature of the generator, should be provided with the application in this event. Any application which is unsigned or does not have an original signature will not be approved by the IDEM.

Complete information is required to complete review of your application. Detach instructions and forward application, fee transmittal form, and fee to the Cashier, Room N1324, Indiana Department of Environmental Management, Office of Solid and Hazardous Waste Management, 100 N. Senate Avenue, P.O. Box 6015, Indianapolis, Indiana 46206-6015

GENERATOR'S WASTE PROFILE SHEETS
(NONHAZARDOUS SOLID WASTES)

GENERATOR'S WASTE PROFILE SHEET INSTRUCTIONS

Information on this form, is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. This information will be maintained in strict confidence. Answers must be provided for all sections of this form, and must be printed in ink or typed. A response of "NONE," or "NA" (not applicable) can be made, if appropriate. If additional space is needed, indicate on the form that additional information is attached, and attach the information to the Generator's Waste Profile Sheet. Shaded areas of the attached form are for Contractor's use only. *If you have questions concerning this form, please contact Contractor's sales representative.*

PART A. WASTE GENERATOR INFORMATION

1. GENERATOR NAME - Enter the name of the facility where the waste is generated.
2. SIC CODE - Enter the 4-digit Standard Industrial Classification Code for the facility where the waste is generated.
3. FACILITY ADDRESS - Enter the street address (not P.O. Box) of the facility where the waste is generated.
4. GENERATOR CITY, STATE/PROVINCE - Enter the city and state or province where the waste is generated.
5. ZIP/POSTAL CODE - Enter the generating facility's zip or postal code.
6. GENERATOR USEPA/CANADIAN FEDERAL ID - Enter the identification number issued by the USEPA or CANADIAN FEDERAL AGENCY to the facility generating the waste (if applicable).
7. GENERATOR STATE/PROVINCE ID - Enter the identification number issued by the state or province to the facility generating the waste (if applicable).
8. TECHNICAL CONTACT - Enter the name of the person who can answer technical questions about the waste.
9. PHONE - Enter technical contact's telephone number.

PART B. WASTE STREAM INFORMATION

1. NAME OF WASTE - Enter a name generally descriptive of this waste (e.g., paint sludge, contaminated soil, incinerator ash, untreated medical waste, friable asbestos, fluorescent bulbs).
2. PROCESS GENERATING WASTE - List the specific process/operation or source that generates the waste (e.g., paint spray booth, spill clean up, incineration of municipal refuse, asbestos removal, building maintenance).
3. ANNUAL AMOUNT/UNITS - Enter the amount of waste that will be generated and transported annually. Use appropriate units to describe this volume (e.g., cubic yards, gallons, kilograms, pounds).
4. WASTE TYPE - Based upon reading the Contractor's Definition of Special Waste that is included in section B.5 of these instructions, determine whether your waste is a "Type A Special Waste" or a "Type B Special Waste". Indicate the proper response in the space provided.
5. SPECIAL HANDLING INSTRUCTIONS/SUPPLEMENTAL INFORMATION - For all wastes, describe any special handling requirements and any additional information that you feel would assist in determining the proper method(s) for transportation, treatment, storage, and disposal of the waste. For Type B Special Waste, provide the "supplemental information" requested after each applicable definition.

CONTRACTOR'S DEFINITION OF SPECIAL WASTE

a. "**Special Waste**" means Type A or Type B Special Wastes as defined below.

b. "**Type A Special Waste**" **means any waste from a commercial or industrial activity** meeting any of the following descriptions:
   i. A waste from an **industrial process.**
   ii. A waste from a **pollution control process.**
   iii. A waste containing **free liquids.**
   iv. Residue and debris **from the cleanup of a spill** of a chemical substance or commercial product or a waste listed *in i.-iii., or v.-vii. of this definition.*
   v. Contaminated residuals, or articles **from the cleanup** of a facility generating, storing, treating, recycling or disposing chemical substances, commercial products, or wastes listed in i.-iv., vi., or vii. of this definition.
   vi. Any waste which is non-hazardous as a result of treatment pursuant to Subtitle C of the Resource Conservation and Recovery Act (RCRA).
   vii. Chemical-containing equipment removed from service, in which the chemical composition and concentration is unknown.

c. "**Type B Special Waste**" means any **waste from a commercial or industrial activity** meeting any of the following descriptions:

i. **Friable asbestos waste from building demolition or cleaning;** *wall board, wall or ceiling tiles, coverings, pipe insulation, etc. This does not include nonfriable asbestos unless it has been processed, handled or used in such a way that asbestos fibers may be freely released. Asbestos-bearing industrial process waste is a "Type A Special Waste"*

Supplemental Information – List the source (e.g. building demolition, pipe insulation removal) of the asbestos or asbestos containing material(s) and the type of asbestos containing material (e.g. pipe insulation). List the proper USEPA or Federal and/or state or provincial waste identification code, if applicable. List the name of agent(s) used to wet the asbestos material before packaging and include its chemical composition or a Material Safety Data Sheet. List the size and type of container(s) that will be used to contain the asbestos and indicate whether the asbestos has been contaminated with any other wastes and if so, what they are.

ii. **Commercial products or chemicals which are off-specification, outdated, unused or banned.** Outdated or off-specification uncontaminated food or beverage products in original consumer containers are not included in this category, unless management of such containers is restricted by state regulations. Containers which once held commercial products or chemicals are included in this category, unless an end has been removed (for containers larger than 25 gallons) and the container is empty, as defined by RCRA, the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), or other applicable regulations.

- RCRA considers a container to be empty when: all wastes have been removed that can be removed using practices commonly employed to remove materials from the type of container (e.g. pouring, pumping, or aspirating), and no more than 1 inch (2.54 centimeters) of residue remains on the bottom of the container or inner liner, or no more than 3% by weight of the total capacity of the container remains in the container or inner liner (for containers ≤ 110 gallons), or no more than 0.3% by weight of the total capacity of the container remains in the the container or inner liner (for containers > 110 gallons). Containers which once held **ACUTELY HAZARDOUS WASTES** must be triple rinsed with an appropriate solvent or cleaned by an equivalent method. The pressure in cylinders of compressed gas and aerosol cans must be substantially equivalent to atmospheric pressure.
- Containers which once held pesticides regulated under FIFRA must be emptied according to label instructions.

Supplemental Information – List the commercial product or chemical and include the proper waste identification code (if applicable) for that material. List whether the commerical product or chemical has been banned, why and by what agency. List whether the commercial product or chemical is off-specification and/or outdated. Attach copies of the most current Material Safety Data Sheets, if they exist. Indicate the current state of the waste (e.g. sludge, liquid, solid).

iii. ***Untreated medical waste* – Any waste capable of inducing infection due to contamination with infectious agents from bio-medical sources including but not limited to a hospital, medical clinic, nursing home, medical practitioner, mortuary, taxidermist, veterinarian, veterinary hospital, animal testing laboratory, or medical testing laboratory.** Sharps from these sources must be rendered harmless or placed in needle puncture-proof containers.

Supplemental Information – List the source from the list above. List the specific waste type(s) and any appropriate warnings for the handling of these wastes. Indicate any special requirements for the safe packaging and storage of these waste types.

iv. **Treated medical waste – Any wastes from a bio-medical source including but not limited to a hospital, medical clinic, nursing home, medical practitioner, mortuary, taxidermist, veterinarian, veterinary hospital, animal testing laboratory or medical testing laboratory which has been autoclaved or otherwise heat treated or sterilized so that it is no longer capable of inducing infection.** Any sharps from these sources must be rendered harmless or placed in needle puncture-proof containers. Residue from incineration of medical waste is a "Type A Special Waste".

Supplemental Information – List the source from the list above. Specify how the waste was treated.

v. **Residue/sludges from septic tanks, food service grease traps, or washwaters and wastewaters from commercial laundries, laundromats, and car washes, unless these wastes are managed at commercial or public treatment works.**

Supplemental Information – Indicate the physical state of the waste (e.g., liquid, sludge, solid). List the specific source(s) (e.g., septic tank pumpings from hotel) of the waste and indicate whether there are any industrial discharges incorporated into the waste. Indicate whether or not a commercial laundry cleans clothing that may be contaminated with chemicals from an industrial facility. List the types of vehicles cleaned at car washes. Include a statement that indicates whether the interiors of any truck, or the exteriors of bulk chemical or waste tank trucks are washed.

vi. **Chemical-containing equipment removed from service, in which the chemical composition and concentration are known (e.g., acetylene tanks, cathode ray tubes, lab equipment, fluorescent light tubes, etc.).**

Supplemental Information – List the specific equipment removed from service and any additional information pertaining to the chemical contained in that equipment, including type, concentration and volume.

vii. **Waste produced from the demolition or dismantling of industrial process equipment or facilities contaminated with chemicals from the industrial process.** Chemicals or residues removed or drained from such equipment or facilities are "Type A Special Wastes".

Supplemental Information – List the waste type(s) (e.g., piping, pumps, tanks) and the process type(s) from which they came. Indicate whether there are residuals contained in the process equipment. Describe the process used to decontaminate the equipment and list any chemicals or mixtures of chemicals that were used in the cleaning process. Attach a copy of the most current Material Safety Data Sheets for each of the chemicals used in the original process, the end product of the process, and the chemicals or mixtures of chemicals used in the cleaning process. Indicate whether this waste is contaminated with asbestos or asbestos insulation.

viii. **Incinerator ash generated at a Resource Recovery Facility that burned only non-hazardous household, commercial, or industrial waste and qualifies for the hazardous waste exclusion in 40 CFR 261.4(b).** If the regulatory authority does not recognize the household hazardous waste exclusion, then the ash is a "Type A Special Waste".

Supplemental Information – If the ash is wetted during storage or transportation, list the wetting agents used and include its chemical composition or provide a current Material Safety Data Sheet.

6. INCIDENTAL AMOUNTS OF SPECIAL WASTE – The Contractor recognizes that many customers will produce some "Special Waste," as defined above. Incidental quantities of special waste (i.e., quantities that do not materially change the physical or chemical identity of the load or make it hazardous waste), do not require the customer to sign a Generator's Waste Profile Sheet. However, the customer must identify the type and amount of special wastes which will be provided to the Contractor in incidental amounts.

PART C. TRANSPORTATION INFORMATION

1. METHOD OF SHIPMENT – Indicate the anticipated method of shipment by checking the appropriate box.
2. SUPPLEMENTAL SHIPPING INFORMATION – Enter any additional shipping information.
3. INDICATE IF THIS WASTE IS A USDOT (see 49 CFR 171) OR CANADIAN FEDERAL HAZARDOUS MATERIAL – Yes answer Questions 4, 5, and 6 below.
4. HAZARD CLASS/ID – Enter the proper USDOT or Canadian Federal hazard class/enter the proper USDOT (see 49 CFR 172) or Canadian Federal Identification Number.
5. REPORTABLE QUANTITY (RQ)/Units (lb/kg) – Enter the RQ established by 40 CFR 302.4 or equivalent Canadian regulation for this waste. Indicate the appropriate units of the RQ.
6. SHIPPING NAME – Enter the proper USDOT or Canadian Federal shipping name for this waste.

PART D. TECHINCAL MANAGER DECISION – To be completed by Contractor's representative only.

PART E. MANAGEMENT FACILITY INFORMATION/DECISION – To be completed by Contractor's representative.

PART F. PHYSICAL CHARACTERISTICS OF WASTE – If Part B.4 was checked "Type B", go directly to Part G.

1. COLOR – Describe the color of the waste (e.g., blue, transparent, varies).
2. ODOR – **DO NOT SMELL THE WASTE!** If the waste has a known incidental odor, then describe it (e.g., pungent, solvent, sweet).

3. PHYSICAL STATE – If the four boxes provided do not apply, a descriptive phrase may be entered after "Other" (e.g. gas).
4. LAYERS – Check all applicable boxes. Multi-layered means more than two layers (e.g. oil/water/sludge). Bi-layered means the waste is comprised of two layers which may or may not be of the same phase (e.g. oil/water, solvent/sludge). Single phased means the waste is homogeneous.
5. SPECIFIC GRAVITY – Indicate the range. The specific gravity of water is 1.0. Most organics are less than 1.0. Most inorganics and paint sludge are greater than 1.0.
6. FREE LIQUIDS – Check "YES" if liquid is usually present when packaging for shipment and estimate the percent of liquid volume. CHECK "NO" if there are no free liquids as determined by the Paint Filter Test (Method 9095 of SW-846) or direct observation.
7. pH – Indicate for liquid portions of the waste. Check the appropriate boxes which cover the pH of the waste. Use the Range space if appropriate. For solid or organic liquid wastes, indicate the pH of a 10% aqueous solution of the waste if applicable. Check "NA" for non-water soluble materials (e.g., foundry sands).
8. FLASH POINT – Indicate the flash point obtained using the appropriate testing method.

PART G. CHEMICAL COMPOSITION

1. List all organic and/or inorganic components of the waste using **special chemical names** (trade names may be used), attach Material Safety Data Sheets or other documents which adequately describe the composition of the waste. For each component, estimate the range (in percents) in which the component is present and also indicate whether any of the TCLP constituents are present in the waste. The total of the maximum values of the components must be greater than or equal to 100% including water, earth, etc.
2. If this waste contains PCBs, cyanides, or sulfides, indicate the concentration(s). If this waste does not contain these constituents, indicate by checking the "NO" box(es) which applies. If the concentration of these constituents is unknown, please indicate "UNK" under "ACTUAL."
3. Indicate whether the method used to determine the chemical composition in G.1. was the TCLP (Toxicity Characteristic Leaching Procedure) method, an analysis to determine the total concentrations, or another method. Specify the other method.

PART H. SAMPLING SOURCE – Describe exactly where the sample was taken (i.e., drum, lagoon, pond, tank, etc.).

PART I. REPRESENTATIVE SAMPLE CERTIFICATION – <u>This section only needs to be completed when submitting a waste sample to Contractor for testing.</u>

Some Special Wastes require analytical data to determine their chemical composition, regulatory status, and whether they are acceptable for transportation, treatment or disposal. The sample should be collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, USEPA, and/or 40 CFR 261.20(c), or equivalent rules. A suitable sample container for most wastes is a wide mouth glass bottle with a plastic cap having a non-reactive liner. Plastic containers are recommended for strong caustics or fluorides. Fill to approximately 90% of capacity to allow for expansion during transportation. The sample must be packed and shipped in accordance with U.S. DOT or Canadian equivalent regulations and any specific requirements imposed by the carrier. *Improperly packaged samples may be disposed upon receipt.*

1. PRINT SAMPLER'S NAME – Enter the sampler's name.
2. SAMPLE DATE – Enter the date that the sample was collected.
3. SAMPLER'S TITLE – Enter the sampler's title.
4. SAMPLER'S EMPLOYER – Enter the name of the sampler's employer.
5. SAMPLER'S SIGNATURE – The sampler must sign in the space provided.

PART J. GENERATOR CERTIFICATION – By signing this Generator's Waste Profile Sheet, the Generator certifies that the statements in Nos. 1, 2, 3, 4, 5, and 6 are true and accurate with respect to the waste streams listed.

7. SIGNATURE – An authorized employee of the Generator must sign this Generator's Waste Profile Sheet.
8. TITLE – Enter employee's title.
9. NAME – Enter employee's name.
10. DATE – Enter the date signed.

KEEP A COPY OF THIS GENERATOR'S WASTE PROFILE SHEET FOR YOUR RECORDS. SEND THE ORIGINAL AND ALL ATTACHMENTS TO THE CONTRACTOR'S SALES REPRESENTATIVE.

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code
WMNA 241771

s form is to be used to comply with the requirements of a waste agreement

STRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

ded Areas For Contractor Use Only)

Decision Expiration Date: / /

ntractor Sales Rep#: ____

Service Agr. Renewal Date: / /

WASTE GENERATOR INFORMATION

Generator Name: ____ 2. SIC Code ____
Facility Address (site of waste generation) ____
Generator City, State Province ____ 5. Zip/Postal Code ____
Generator USEPA/Federal ID #: ____ 7. State/Province ID # ____
Technical Contact: ____ 9. Phone ( ) ____

WASTE STREAM INFORMATION (See Instructions)

Name of Waste: ____
Process Generating Waste: ____
Annual Amount/Units: ____ 4. Type A ☐ Type B ☐
Special Handling Instructions/Supplemental Information: ____

Incidental Waste Types and Amounts: ____

TRANSPORTATION INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☐ Bulk Solid ☐ Drum/Box ☐ Other ____
Supplemental Shipping Information: ____

Is this a DOT hazardous material? ☐ No ☐ Yes (If yes, complete 4, 5 & 6) 4. Hazard Class/ID #: ____
Reportable Quantity/Units (lb/kg): ____ 6. Shipping Name: ____

TECHNICAL MANAGER DECISION (Check One) ☐ **APPROVED** ☐ **DISAPPROVED** ☐ Check if additional information is attached

If Disapproved, Explain: ____
If Approved, Continue. ____
Management Method(s) ____

Precautions, Conditions, or Limitations on Approval: ____

For Type A Wastes, Laboratory **Analysis** of a **Representative** Sample Was: ☐ Waived ☐ Attached
If waived, explain why: ____

List Non-WMI Facility that is **Approved to Manage this Waste**: ____ Date: ____
Tech. Mgr. Signature: ____ Name (Print): ____ Date: ____

MANAGEMENT FACILITY INFORMATION / DECISION

Proposed Management Facility: ____
Proposed Intermediate Transfer Facility: ____ 3. Transporter: ____
Management Facility Gen. Mgr. Decision (Check One) ☐ **APPROVED** ☐ **DISAPPROVED**
If Disapproved, Explain: ____
If Approved, List Precautions, Conditions, or Limitations on Approval: ____
General Mgr. Signature: ____ Name (Print) ____ Date: ____

Turn Page and Complete Side 2 (If Type B Special Waste only complete Part J of Side 2)

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

F. PHYSICAL CHARACTERISTICS OF WASTE (See instructions)

1 Color	2 Does the waste have a strong incidental odor? ☐ No ☐ Yes If so describe	3 Physical State @ 70 F 21 C ☐ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder ☐ Other	4 Layers ☐ Multi-layered ☐ Bi-layered ☐ Single Phased	5 Specific Gravity Range	6 Free Liquids ☐ Yes ☐ No Volume

7 pH ☐ <2 ☐ > 2-4 ☐ 4-7 ☐ 7 ☐ 7-10 ☐ 10- <12.5 ☐ ≥12.5 ☐ Range ☐ NA

8 Flash Point ☐ None ☐ <140 F 60 C ☐ 140 - 199 F 60 - 93 C ☐ ≥200 F 93 C ☐ Closed Cup ☐ Open Cup

G. CHEMICAL COMPOSITION

	RANGE (MIN-MAX)
1 _____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
_____	_____ - _____ %
Total:	_____ %

2 Does the waste contain any of the following? (provide concentration if known)

	NO	or	LESS THAN	or	ACTUAL
PCBs	☐		☐ < 50 ppm		_____ ppm
Cyanides	☐		☐ < 30 ppm		_____ ppm
Sulfides	☐		☐ < 500 ppm		_____ ppm

Please note: Unless analytical results are attached, the chemical composition identification should include, at a minimum, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Pesticides, Herbicides, and any other TCLP constituents that may be present in the waste. The total composition must be greater than or equal to 100%. (.0001% = 1 ppm or 1 mg/l)

3 Indicate method used to determine composition (if provided): ☐ TCLP ☐ Total ☐ Other _____

H. SAMPLING SOURCE (e.g., Drum, Lagoon, Pit, Pond, Tank, Vat) _____

I. REPRESENTATIVE SAMPLE CERTIFICATION

Print Sampler's Name: _____ 2 Sample Date: _____

3 Sampler's Title: _____

4 Sampler's Employer (if other than Generator): _____

The sampler's signature certifies that any sample submitted is representative of the waste described above pursuant to 40 CFR 261.20(c) or equivalent rules.

5 Sampler's Signature _____

J. GENERATOR CERTIFICATION

By signing this profile sheet, the Generator certifies:

1. This waste is not a "Hazardous Waste" as defined by USEPA or Canadian Federal regulation and/or the state/province
2. This waste does not contain regulated radioactive materials or regulated concentrations of PCB's (Polychlorinated Biphenyls)
3. The unshaded portions of this sheet and the attachments contain true and accurate descriptions of the waste material. All reasonable information regarding known or suspected hazards in the possession of the Generator has been disclosed.
4. The Generator has read and understands the Contractor's Definition of Special Waste included in Part B 5. of the attached contract. All types and amounts of special wastes provided in incidental amounts have been identified in section B 6. of this form.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20(c) or equivalent rules.
6. If any changes occur in the character of the waste, the Generator shall notify the Contractor prior to providing the waste.

7 Signature _____ 8 Title _____

9 Name (Type or Print) _____ 10 Date _____

GENERATOR'S WASTE PROFILE SHEETS
(HAZARDOUS SOLID WASTES)

Chemical Waste Management, Inc.

GENERATOR'S WASTE PROFILE SHEET WORKSET

Return this completed workset to:

_____

_____

_____

_____

GENERAL INSTRUCTIONS

This workset contains one form:

— **GENERATOR'S WASTE MATERIAL PROFILE SHEET**

1. The Generator's Waste Material Profile Sheet that must be completed, and signed by the actual generator. Additional information will be supplied by CWM and returned to the generator with a contract, for review and confirmation signature.

2. This document is perforated so the forms and the instructions may be separated for your convenience.

3. Shaded areas on the forms are for Chemical Waste Management use only.

4. Answers must be made to **ALL QUESTIONS.**

5. Answers must be printed in ink or typed.

6. Instructions are included to help you complete these forms correctly. The letters and numbers which precede each instruction refer to the lettered and numbered entries on the forms.

7. Page one of the Generator's Waste Material Profile Sheet must be signed by the actual waste generator or agent authorized in writing by the generator.

8. If you have any questions concerning the use of this form, please contact your Chemical Waste Management Sales Representative or the office that issued this workset to you or call our toll free customer service number (800) 843-3604.

9. **MAKE A COPY OF THESE FORMS FOR YOUR RECORDS. SEND THE ORIGINAL AND ALL ATTACHMENTS TO THE ADDRESS SHOWN ABOVE OR TO THE ADDRESS PROVIDED BY YOUR CHEMICAL WASTE MANAGEMENT, INC. SALES REPRESENTATIVE.**

Chemical Waste Management, Inc.

GENERATOR'S WASTE PROFILE SHEET
WORKSET

This information is required for a waste to be considered for transportation, treatment, storage or disposal. It is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. **ANSWERS MUST BE MADE TO ALL QUESTIONS** and must be printed in ink or typed. Shaded areas are for CWM use only.

GENERAL INFORMATION

1. GENERATOR NAME—Enter the name of the generating facility.

   GENERATOR USEPA ID—Enter the twelve character alpha-numeric descriptor issued by the USEPA to the facility generating the waste. NOTE: Some states like Texas, Illinois and Alabama require a state waste generator number for wastes shipped into those states. If you have any questions concerning how to obtain this number, please contact CWM customer service.

2. GENERATOR ADDRESS—Enter the street address (not P.O. Box), city, state and zip code of the generating facility and state whether the billing address is the same as the generator address. If not, list the actual billing address.

3. TECHNICAL CONTACT—Enter the name of a person who will answer **specific technical** questions about the waste.

4. ALTERNATE CONTACT—Enter the name and telephone number of a person who will answer **general** questions about the waste such as transportation scheduling, logistics, etc.

   BILLING CONTACT—Enter the name and telephone number of a person who will answer questions regarding **billing** for services rendered.

PROPERTIES AND COMPOSITION

5. PROCESS GENERATING WASTE—List the specific process/operation or source that generates the waste (e.g., wastewater treatment from electroplating (tin on carbon steel) operation, paint spray booth (no listed solvents used), spill cleanup from leaking PCB transformers, solvent recovery by distillation, steel finishing wastewater treatment). Be specific and descriptive. If the waste is generated from a **CERCLA** cleanup, indicate the name of the site and attach the CERCLA 104/106 order, Record of Decision or court order that governs site cleanup activities.

6. WASTE NAME—Enter a name that is generally descriptive of this waste (e.g., cyanide plating sludge, latex paint sludge, PCB contaminated dirt, still bottoms, pickle liquor wastewater treatment sludge).

7. A. USEPA HAZARDOUS WASTE—Indicate if this waste is a USEPA Hazardous Waste (40 CFR 261).
   B. IF THE WASTE IS USEPA HAZARDOUS, identify ALL USEPA waste numbers that apply.
   STATE WASTE CODES—If the state in which the waste is generated has issued specific waste codes, other than RCRA codes, identify all state waste codes.

8. A. Solid or Liquid—Indicate whether the waste is a solid or a liquid.
   B. Layers—If a liquid, indicate whether the waste is composed of two or more discernible layers (e.g., oil and water, etc.) or a single phase.
   C. Free Liquids—If the waste contains both solid and liquid phases indicate the free liquid content or range in percent.

9. A. pH—Indicate either the actual pH or range. For aqueous wastes, pH is measured directly. For solid or organic liquid wastes pH should be measured using a 10% aqueous solution of the waste. Check "not applicable" for bulky insoluble materials (e.g., crates, dismantled drums, rocks, etc.) or gases.
   B. STRONG ODOR—**DO NOT SMELL THE WASTE.** If the waste has a known incidental odor, then describe it (e.g., acrid, butyl, solvent, sweet).

10. LIQUID FLASH POINT—Indicate the liquid flash point obtained using the appropriate testing method (40 CFR 261.21). The flash point is important from a transportation standpoint (49 CFR 173.115). Solids with flammable potential should be described in Section 12 (Pyrophoric, Oxidizer, Other).

11. CHEMICAL COMPOSITION—List all organic and/or inorganic components of the waste using **specific chemical names.** If trade names are used, attach Material Safety Data Sheets or other documents which adequately describe the material. For each component indicate the approximate concentration (ranges are acceptable) in percentage, parts per million (ppm), parts per billion (ppb) in which the component is present. In cases of extreme pH (≤ 2.0 or ≥ 12.5) indicate the specific acid or caustic species. **THIS LIST MUST INCLUDE ALL COMPONENTS OF THE WASTE. THE TOTAL OF THE MAXIMUM VALUES OF THE COMPONENTS MUST BE GREATER THAN OR EQUAL TO 100% INCLUDING WATER, SOIL, INORGANIC SALTS, ETC.**

EXAMPLE:

Constituents	Range	Units	Constituents	Range	
Water	40-80	%	Calcium Hydroxide	7-12	
Inorganic Salts	20	%	Nickel	1-3	
Copper	6	%	Iron	500-1500	ppm

Chemical Waste Management, Inc.

GENERATOR'S WASTE PROFILE SHEET WORKSET

12. OTHER—Check each box, as applicable.

PCBs—Indicate if the waste contains polychlorinated biphenyls regulated by 40 CRF 761. If yes, indicate the concentration of PCBs in parts per million.

Pyrophoric—Indicate if the waste will ignite spontaneously in air at or below 130°F (54.5°C) (49 CFR 173.115).

Explosive—Indicate if the waste is capable of detonation or explosive reaction if subjected to a strong initiating source or if heated under confinement, a Class A explosive (49 CFR 173.53), or a Class B explosive (49 CFR 173.88).

Radioactive Waste—Indicate if the waste contains radioactive material as defined in 10 CFR or 40 CFR 261.4.(a)(4).

Benzene—If present, indicate benzene concentration.

Shock Sensitive—Indicate if the waste is normally unstable and readily undergoes violent change without detonating.

Oxidizer—Indicate if the waste is capable of yielding oxygen readily to stimulate the combustion of organic material [illegible]

Carcinogen—Identify any known carcinogens that are present in concentrations above 0.1 percent. List each known carcinogen [illegible] its concentration in the Chemical Composition Section above. See OSHA Hazardous Communication Standard 29 CFR [illegible] for carcinogens.

Infectious—Indicate if the waste was generated in connection with patient care or medical research or if it may be contaminated with pathological agents capable of inducing infection and which has not been rendered harmless by sterilization or incineration.

Other—Indications of other hazardous characteristics must be included (e.g., autopolymerization, peroxide-forming, etc.)

13. LAND DISPOSAL RESTRICTIONS—If the waste is subject to the land disposal restrictions (40 CFR 268) and meets the treatment standards of 40 CFR 268.41, 268.42 and/or 268.43, please check the box and submit analytical data where applicable.

SHIPPING INFORMATION

14. PACKAGING—Indicate the anticipated method(s) of shipment by checking the appropriate box(es). If drums are to be used [illegible] CFR 173 for DOT drum specifications.

15. ANTICIPATED WASTE VOLUME—Enter the amount of this waste which will be generated and transported annually. Use [illegible] units to describe this volume (e.g., cubic yards, gallons, kilograms, pounds and the frequency which the waste will be shipped [illegible] daily, weekly, quarterly, etc.).

SAMPLING INFORMATION

This sample should be collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Me[illegible] SW 846, USEPA, Office of Solid Waste, Washington, D.C. 20460 and/or 40 CFR 261—Appendix I. A suitable sample container [illegible] wastes is a wide mouth glass bottle with a plastic cap having a non-reactive liner. Plastic containers are recommended [illegible] caustics or fluorides. Fill to approximately 90% of capacity to allow for expansion during transportation. Please complete the [illegible] label and attach it to the sample container, not the shipping container. If there are any questions on sampling, such as [illegible] volumes, please contact CWM customer service.

If this waste is a hazardous material, the sample must be packaged and shipped in accordance with USDOT regulations [illegible] 171.2) and any specific requirements imposed by the carrier. Improperly packaged samples may be unsuitable for analysis and [illegible] quent approval.

16. A SAMPLE SOURCE—The sampler is to describe exactly from where the sample was taken (e.g. conveyor, drum, lagoon [illegible] pond, tank, vat). The sample date, the name of the sampler and the sampler's company must be included.

B GENERATOR'S AGENT SUPERVISING SAMPLING—When the generator chooses to have a third party supervise sam[illegible] waste, please identify the name of the person supervising such sampling.

17. NO SAMPLE REQUIRED—Questions concerning sample waiver should be referred to your Chemical Waste Management [illegible] or Customer Service Representative.

GENERATOR CERTIFICATION—An authorized employee or agent (authorized in writing) of the generator must sign and date [illegible] tification on the completed Generator's Waste Material Profile. When an agent signs the Chemical Waste Management pro[illegible] generator, please submit written documentation demonstrating that the generator has authorized the agent to sign the ce[illegible] section of the profile.

MAKE A COPY OF THIS GENERATOR'S WASTE MATERIAL PROFILE SHEET FOR YOUR RECORDS. SEND THE ORIGINAL [illegible] TACHMENTS TO THE ADDRESS SHOWN ON THE FORM OF THIS WORK SET OR TO THE ADDRESS PROVIDED BY YOUR [illegible] WASTE MANAGEMENT, INC. SALES REPRESENTATIVE.

Chemical Waste Management, Inc.

WASTE PROFILE

BS _____

Profile #

☐ Check here if this is a Recertification LOCATION OF ORIGINAL _____

GENERAL INFORMATION

1 GENERATOR NAME. _____ Generator USEPA ID _____

2 Generator Address: _____ Billing Address ☐ Same _____

3 Technical Contact/Phone: _____

4 Alternate Contact/Phone: _____ Billing Contact/Phone: _____

PROPERTIES AND COMPOSITION

5. Process Generating Waste: _____

6 Waste Name: _____

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes ☐ No ☐

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U). _____

_____ State Waste Codes: _____

8. Physical State @ 70°F: A. Solid ☐ Liquid ☐ Both ☐ B. Single Layer ☐ Multilayer ☐ C Free liquid range _____ to _____ %

9A. pH: Range _____ to _____ or Not applicable ☐ B. Strong Odor ☐, describe _____

10 Liquid Flash Point: < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ N.A. ☐ Closed Cup ☐ Open Cup

11 CHEMICAL COMPOSITION: List ALL constituents (including halogenated organics) present in any concentration and forward available analysis

Constituents	Range	Units	Constituents	Range	Units

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

12. OTHER: PCBs if yes, concentration ____ ppm, PCBs regulated by 40 CFR 761 ☐ Pyrophoric ☐ Explosive ☐ Radioactive
Benzene if yes, concentration ____ ppm. Shock Sensitive ☐ Oxidizer ☐ Carcinogen ☐ Infectious ☐ Other _____

13. If the waste is subject to the land ban and meets the treatment standards, check here ____ and supply analytical results where applicable

SHIPPING INFORMATION

14 PACKAGING: Bulk Solid ☐ Bulk Liquid ☐ Drum ☐ Type/Size _____ Other _____

15 ANTICIPATED ANNUAL VOLUME: _____ Units _____ Shipping Frequency: _____

SAMPLING INFORMATION

16a Sample source (drum, lagoon, pond, tank, vat, etc.) _____

Date Sampled: _____ Sampler's Name/Company _____

16b Generator's Agent Supervising Sampling: _____ 17 ☐ No sample required (See note)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of waste verification.

_____ _____ _____ _____

Signature Printed / typed name and title Date

CWM Form 8000 C replaces and is equivalent to the following forms: CWM 5100, CWM-6000, CWM 50-A-2 and CWM 50-B

GENERATOR'S WASTE PROFILE SHEETS
(LIQUID WASTES)

CleanHarbors

GENERATOR'S WASTE MATERIAL PROFILE SHEET

INSTRUCTIONS

The following information is required in order for Clean Harbors to transport and dispose of waste in a legal, safe, and environmentally sound manner. The information supplied will be kept strictly confidential. Answers must be made to all questions and must be completed in ink. Response of none or not applicable should be made if appropriate. Many items are self-explanatory. A Bill of Lading can be found on the reverse side of this page. It should be used for transporting samples via roadway.

Part A — General Information

Generator — List the name of the generating facility.

Facility address — List the address of the generating facility. Do not use a post office box number.

SIC number — List the standard industrial classification number of the generator.

Generator USEPA ID# — List the USEPA ID# of the generator.

Generator state ID# — List the generator's state ID#. Note that in most states this is the same as the U.S. EPA ID#.

Technical contact — A person who could give additional technical information about the waste if needed for approval or in the event of an emergency.

Technical contact's phone — A telephone number at which the technical contact can be reached.

Bill to — The name of the company or person who should receive the invoice from Clean Harbors.

Billing address — The address where the invoice should be sent.

Clean Harbors contact person — List the name of your Clean Harbors salesperson or customer service representative.

Clean Harbors Service Center Location — List the city where your Clean Harbors Service Center is located.

Sample approval P.O.# — Clean Harbors charges a fee for waste profile approval analysis. The P.O.# for the sample approval fee should be listed here.

W/O# — This number is assigned by Clean Harbors for internal use.

Customer contact — If the customer is different from the generator (i.e. a broker), the contact person should be listed.

Customer contact's phone — A telephone number at which the customer contact can be reached.

Part B — Waste Description

Common name for the waste — Is the name with which the generator refers to the waste. Note that this is the name that the waste will be referred to on all correspondences with Clean Harbors (e.g. invoices, quotes).

Process generating the waste — List the specific process by which the waste was generated. Note that many wastes are regulated by the EPA based on the process of generation (e.g. electroplating, solvents used for degreasing).

Part C — Properties

The physical properties of the waste are to be indicated in this section. If an exact number is known it should be used, but ranges are acceptable. If a property does not apply to a particular waste use "N/A" to indicate that it is not applicable.

PH — List the exact value or range. If it is a slurried solid, indicate % solid in the slurry.

Color — List the color or colors of the waste.

% Total Chlorine — List the amount of chlorine which is combined with a hydrocarbon (i.e. methylene chloride, bromochloromethane).

Specific Gravity/Density — List the specific gravity or density for the waste. Density is the weight/unit volume. Specific gravity is a ratio of the density of the waste to the density of a reference substance like water.

Odor — Do not smell the waste. If it has a known incidental odor describe it.

% Acidity/Alkalinity — This is not the same as PH! This is another measurement of how strong/weak an acid/base is. e.g. Water < 1% acidity/alkalinity; weak acid/base 5-20%; medium acid/base 20-50%; strong acid/base 50-100%; very strong acid/base > 100% acidity/alkalinity.

% TOC — List the percent "total organic carbon".

BTU's/Pound — is a measurement of the amount of heat given off when a material is burned. List the value.

% Ash — Note percentage of ash residue resulting from complete combustion of waste.

% Sulfur — Note total sulfur content.

Flashpoint — Is the temperature at which a material gives off a vapor sufficient to form an ignitable mixture with air near the surface of the material. Check the most appropriate box.

Boiling point — Check the appropriate box.

Physical State — Check the most appropriate box or boxes.

% Free Liquid — List the percent of unabsorbed liquid.

% Settled Solids — List the approximate amount of settled solids in the waste.

% Total Suspended Solids — List the percent of unsettled solids.

Part D — Composition

List the composition of the waste with percentages. Ranges are acceptable. The total composition must add up to at least 100%. Be sure any inert material such as water or debris (specify what type of debris.) If a trade name is used, or the material is a commercial product supply an MSDS.

Check the appropriate box as to whether MSDS's are attached.

Part E — Department of Transportation Information

Part E of the profile details the information required by the Department of Transportation. The form is designed to accommodate both 49 CFR part 172 DOT shipping information or the new HM181 (POPS) DOT shipping information.

If you are using 49 CFR part 172 fill in the proper shipping name, hazard class, UN or NA number, and the reportable quantity (RQ). If HM181 (POPS) System is utilized fill in the proper DOT shipping name, division, UN or NA number, packing group, hazard zone (if [illegible]) and the reportable quantity.

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Part F — Shipment Method

Check the appropriate box for shipment container to be used or list an alternative container.

Part G — Anticipated Volume

Check the appropriate boxes which best describe the shipment volume and frequency.

Part H — Waste Disposal Status

Check the appropriate boxes for "U.S. EPA Hazardous Waste" and "State Hazardous Waste". List the appropriate waste numbers which apply to the waste. A listing of the U.S. EPA waste numbers can be found in 40 CFR part 261. Indicate whether the waste is restricted from landfill under 40 CFR part 268.

Check the appropriate box either "wastewater" or "non-wastewater". Wastewaters are defined by the USEPA as materials having less than 1% Total Organic Carbon (TOC) by weight and less than 1% Total Suspended Solids (TSS) by weight with the following exceptions: (1) *F001, F002, F003, F004, F005 solvent-water mixtures* that contain less than 1% by weight TOC or less than 1% by weight total F001, F002, F003, F004, F005 solvent constituents listed in §268.41, Table CCWE. (2) *K011, K013, K014 wastewaters* (as generated) that contain less than 5% by weight TOC and less than 1% by weight TSS. (3) *K103 and K104 wastewaters* contain less than 4% by weight TOC and less than 1% by weight TSS. Any waste that does not meet the applicable definition of wastewater is a non-wastewater.

Check the appropriate box as to whether or not the waste generates a F006 or F019 sludge upon treatment.

Check the appropriate box as to whether or not the waste is subject to categorical pretreatment discharge standards and list the specific point source category listed in 40 CFR part 401. These standards only apply to industrial discharge waters that would normally be sent to a publicly owned treatment works (POTW).

Check the appropriate box as to whether or not the waste requires notification under the benzene NESHAP rules.

Part I — Other Hazards

Part I lists other hazards which may be associated with a waste. Check yes if the hazard applies to the waste.

Oxidizer — Does the waste yield oxygen readily to stimulate the combustion of organic matter.

Water Reactive — Will react violently when mixed with water.

Radioactive — Emits alpha, beta, or gamma radiation above normal background levels.

Dioxin — Does the waste contain dioxin.

Infectious (Etiological Agents) — A substance which causes diseases or abnormal conditions in humans, or which contains living or once living organisms (e.g. bacteria, tissue, animal carcass), or is a disease causing organism.

Carcinogens — Check box if any OSHA listed carcinogens (or any other established list) is present.

Mutagen, Reproductive Toxins — Mutagens are substances which induce genetic changes in subsequent generations of organisms. Reproductive toxins are substances which negatively affect parental reproductive performance and/or the growth and development of offspring.

Pesticide — Does the waste contain Pesticides, Fungicides, Insecticides, or Rodenticides.

Herbicide — A chemical used to destroy vegetation.

Explosive — Capable of detonation or explosive reaction if subjected to a strong initiating source or if heated under confinement; or an explosive as defined in 49 CFR 173.50.

Pyrophoric — Will ignite spontaneously.

Shock Sensitive — Normally unstable and readily undergoes violent change without detonating.

Thermally Sensitive — The hazardous or toxic properties may change with the application of heat.

Part J — Toxicity Characteristic Compounds

Part J lists all the toxicity characteristic compounds. Indicate the concentration of each compound present in the waste in the space provided. Indicate whether the concentrations listed are TCLP or TOTAL by checking the appropriate box at the top of the section. Also indicate whether the concentration listed is based on knowledge or testing. This is done by checking the "K" if the concentration listed was based upon generator's knowledge or "T" if it was based upon test results. If the chemical is not present in the waste, indicate that it is less than the TCLP regulatory limit.

EXAMPLE:

Concentration completed based on ☐ Knowledge ☑ Testing If based on testing include analytical results.

Waste No.	Compound	Regulatory Level (ppM)	Concentration (ppm) Reported as	
			☐ TCLP	☑ Total
D004	ARSENIC	5.0	_____	< 5

In the example the concentration listed is TOTAL (ppM). The Arsenic concentration reported was based upon testing.

Part K — Other Compounds

Part K lists a series of chemicals. If the chemical is present in the waste list the concentration or range.

Part L — Sample Status

Check the appropriate box as to whether or not a representative sample has accompanied the profile. In certain instances samples may not be required. Contact your local Clean Harbors representative concerning sample waivers.

Note that if the sample is a hazardous material or hazardous substance it must be shipped and packaged in accordance with DOT and International Air Transportation Authority (IATA) Regulations and any additional requirements of the carrier. A Bill of Lading can be found on the back of the instructions page 1. It should be utilized for sample transporting via roadway.

Part M — Specific Generator Request For Disposal and/or Comments

In part M generators may indicate any special requests they have regarding the disposal of the waste or indicate any additional information addressed on the other sections of the profile.

Generators Certification

Each profile must be signed and dated by the generator. Because this document is used for compliance purposes, it cannot be signed by anyone other than the generator.

Profile Number U 14145

WASTE MATERIAL PROFILE SHEET

(Please complete all areas, leave nothing blank)

A. GENERAL INFORMATION

GENERATOR _____ BILL TO: _____

FACILITY ADDRESS _____ BILL TO ADDRESS _____

_____ _____

SIC NUMBER _____ CLEAN HARBORS CONTACT PERSON _____

GENERATOR USEPA ID# _____ CLEAN HARBORS SERVICE CENTER LOCATION _____

GENERATOR STATE ID # _____ SAMPLE APPROVAL P.O. # _____ W/O # _____

TECHNICAL CONTACT _____ CUSTOMER CONTACT _____

TECHNICAL CONTACT'S PHONE _____ CUSTOMER CONTACT'S PHONE _____

B. WASTE DESCRIPTION

COMMON NAME FOR WASTE _____

PROCESS GENERATING THE WASTE _____

C. PROPERTIES

PH ☐ <2 ☐ 2-4 ☐ 5-9 ☐ 10-12.5 ☐ >12.5 ACTUAL _____

% TOC _____ BTUs/POUND _____ % ASH _____ % SULFUR _____ COLOR _____

% TOTAL CHLORINE _____ SPECIFIC GRAVITY/DENSITY _____ ODOR _____ % ACIDITY/ALKALINITY _____

FLASHPOINT (°F) ☐ <73° ☐ 73-99° ☐ 100-139° ☐ 140-200° ☐ >200° ☐ NONE

BOILING POINT (°F) ☐ < OR = 95° ☐ >95°

PHYSICAL STATE

☐ LIQUID WITH NO SOLIDS ☐ SOLID WITHOUT FREE LIQUID

☐ THICK VISCOUS LIQUID ☐ POWDER ☐ MULTILAYERED

☐ LIQUID/SOLID MIXTURE (INDICATE %) _____ % FREE LIQUID _____ % SETTLED SOLIDS _____ % TOTAL SUSPENDED SOLIDS ☐ MONOLITH ☐ BILAYERED

D. COMPOSITION

_____	_____ %	_____	_____ %
_____	_____ %	_____	_____ %
_____	_____ %	_____	_____ %
_____	_____ %	_____	_____ %
_____	_____ %	_____	_____ %
_____	_____ %	_____	_____ %

MSDS's ATTACHED ☐ YES ☐ NO

E. DEPARTMENT OF TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME _____

D.O.T. HAZARD CLASS OR DIVISION _____

UN/NA # _____ PACKING GROUP _____ HAZARD ZONE _____ RQ _____

F. SHIPMENT METHOD

☐ BULK LIQUID ☐ BULK SOLID ☐ DRUM (SIZES) _____

☐ OTHER (SPECIFY) _____

G. ANTICIPATED VOLUME

_____ ☐ GALS. ☐ DRUMS ☐ CUBIC YARDS

FREQUENCY ☐ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

H. WASTE DISPOSAL STATUS

USEPA HAZARDOUS WASTE ☐ YES ☐ NO

USEPA HAZARDOUS WASTE NUMBER(S) _____

_____

STATE HAZARDOUS WASTE ☐ YES ☐ NO

STATE HAZARDOUS WASTE NUMBER(S) _____

IS THIS A RESTRICTED WASTE UNDER THE LAND BAN REGULATIONS? YES NO

THIS WASTE IS A ☐ WASTEWATER ☐ NON-WASTEWATER PER USEPA DEFINITION, IN 40 CFR 268.2.

DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE? YES ☐ NO

IS THIS WASTE SUBJECT TO CATEGORICAL PRETREATMENT DISCHARGE STANDARDS? ☐ YES ☐ NO

IF YES SPECIFY POINT SOURCE CATEGORY LISTED IN 40 CFR PART 401 _____

DOES THE WASTE REQUIRE NOTIFICATION UNDER THE BENZENE NESHAP RULES? ☐ YES ☐ NO

I. OTHER HAZARDS

	YES	NO		YES	NO		YES	NO
OXIDIZER	☐	☐	INFECTIOUS, ETIOLOGICAL AGENT, PATHOGEN, OR BIOLOGICAL MATERIAL	☐	☐	HERBICIDE		
WATER REACTIVE	☐	☐				EXPLOSIVE		
RADIOACTIVE	☐	☐	CARCINOGENS	☐	☐	PYROPHORIC		
DIOXIN	☐	☐	MUTIGEN, REPRODUCTIVE TOXINS	☐	☐	SHOCK SENSITIVE		
			PESTICIDE	☐	☐	THERMALLY SENSITIVE		

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Profile Number U 14145

J. TOXICITY CHARACTERISTIC COMPOUNDS CONCENTRATION. COMPLETED BASED ON ☐ KNOWLEDGE OR ☐ TESTING
IF BASED ON TESTING, INCLUDE ANALYTICAL RESULTS

WASTE NO.	COMPOUND	REGULATORY LEVEL (ppM)	CONCENTRATION (ppM) REPORTED AS ☐ TCLP	☐ TOTAL
METALS				
D004	ARSENIC	5.0		
D005	BARIUM	100.0		
D006	CADMIUM	1 0		
D007	CHROMIUM	5 0		
	CHROMIUM CR + 6			
D008	LEAD	5.0		
D009	MERCURY	0.2		
D010	SELENIUM	1.0		
D011	SILVER	5.0		
PESTICIDES AND HERBICIDES			☐ TCLP	☐ TOTAL
D012	ENDRIN	0.02		
D013	LINDANE	0.4		
D014	METHOXYCHLOR	10.0		
D015	TOXAPHENE	0.5		
D016	2,4-D	10.0		
D017	2,4,5-TP (SILVEX)	1.0		
D020	CHLORDANE	0.03		
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008		
VOLATILE ORGANIC COMPOUNDS			☐ TCLP	☐ TOTAL
D018	BENZENE	0.5		
D019	CARBON TETRACHLORIDE	0.5		
D021	CHLOROBENZENE	100.0		
D022	CHLOROFORM	6.0		
D028	1,2-DICHLOROETHANE	0.5		
D029	1,1-DICHLOROETHYLENE	0.7		
D035	METHYL ETHYL KETONE	200.0		
D039	TETRACHLOROETHYLENE	0.7		
D040	TRICHLOROETHYLENE	0.5		
D043	VINYL CHLORIDE	0.2		
SEMI-VOLATILE ORGANIC COMPOUNDS			☐ TCLP	☐ TOTAL
D023	o-CRESOL	200.0		
D024	m-CRESOL	200.0		
D025	p-CRESOL	200.0		
D026	CRESOL (TOTAL)	200 0		
D027	1,4-DICHLOROBENZENE	7 5		
D030	2,4-DINITROTOLUENE	0.13		
D032	HEXACHLOROBENZENE	0.13		
D033	HEXACHLOROBUTADIENE	0.5		
D034	HEXACHLOROETHANE	3.0		
D036	NITROBENZENE	2.0		
D037	PENTACHLOROPHENOL	100.0		
D038	PYRIDINE	5.0		
D041	2,4,5-TRICHLOROPHENOL	400.0		
D042	2,4,6-TRICHLOROPHENOL	2.0		

K. OTHER COMPOUNDS (ppM)

AMMONIA		TIN		TOTAL CYANIDE		HOCs	
BERYLLIUM		COBALT		AMENABLE CYANIDE		PCBs	
THALLIUM		NICKEL		F001-F005 SOLVENTS		CHELATORS	
COPPER		ZINC		SULFIDES			

L. SAMPLE STATUS

A REPRESENTATIVE SAMPLE HAS BEEN SUPPLIED ☐ YES ☐ NO

M. SPECIFIC GENERATOR REQUEST FOR DISPOSAL AND/OR COMMENTS

FOR CLEAN HARBORS USE ONLY

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge I also certify that all samples submitted are representative of the actual waste.

AUTHORIZED SIGNATURE | NAME (PRINT) | TITLE | DATE

CHI 102 (2/2)

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Profile Number U 14145

APPENDIX D

SAMPLING AND ANALYSIS PLAN

FIELD SAMPLING AND ANALYSES PLAN

DRUMMED WASTE REMOVAL

ENVIRO-CHEM SUPERFUND SITE
ZIONSVILLE, INDIANA

PREPARED FOR:

ENVIRONMENTAL CONSERVATION AND CHEMICAL CORPORATION TRUST

PREPARED BY:

AWD TECHNOLOGIES, INC.
INDIANAPOLIS, INDIANA

AWD PROJECT NUMBER 2455.002

NOVEMBER 1994

TABLE OF CONTENTS

1.0 DRUM HANDLING AND STAGING

1.1 General

Presently, there exists approximately 300 drums anticipated to have originated from past investigations and the remedial activities of previous and present contractors (i.e., drilling operations, pilot, and field studies, etc.) (see Appendix A). All drums and drum content will be handled, sampled, and removed during this action. Many drums are in poor and deteriorated condition. All drums will be surveyed for organic vapors and visually inspected prior to handling for health and safety purposes and possible special handling requirements.

1.2 Drum Evaluation and Personnel Protection

Prior to handling or sampling of any drum those precautions and procedures as discussed in Section 2.0 of this Plan will be carried out. A Health and Safety Plan will be prepared by AWD for all field activities.

2.0 SAMPLING EQUIPMENT AND PROCEDURES

2.1 Bulked Soils (Pile)

A single simple composite sample shall be taken from the bulked soils pile. The composite sample will consist of a combination of four single grab samples taken at the mid-depth location within the center of each of the four pile quadrants. The four grab samples shall be placed directly into the sample container and they shall not be mixed in the field.

2.1.1 Bulked Soil Pile Sampling Equipment

- Scoops or triers (stainless steel)
- Shovel
- Personal protective equipment
- Sample containers

2.1.2 Procedure

Field sampling procedures for collecting a simple composite soil pile sample are as follows:

1. Measure the soil pile footprint area and stake out the pile quadrants.

2. Access the center location of each pile quadrant and remove the soil overlying the mid-depth point within the pile using a scoop or shovel, as necessary.

3. Retrieve sufficient quantity of soil from each quadrant to fill one-fourth of the sample container total volume.

4. Cap the sample containers tightly and place in container carrier. Make sure the sample has been labeled, identified, and secured.

2.2 Bulked Liquids (Tanker)

A single stratified grab sample shall be taken from the tanker.

2.2.1 Liquid Waste Tanker Sampling Equipment

- Bailers (stainless steel), or
- Open tube samplers, or
- Pond samplers
- Personal protective equipment
- PVC pipe of sufficient strength
- Wrenches for tank port
- Sample containers

2.2.2 Procedure

Field sampling procedures for collecting tanker content samples using an open tube sampler, pond sampler, or an open bucket sampler are as follows:

1. Gain access (e.g., steps, ladders, man-lift, etc.) to the tanker's top port.

2. Slowly open release valve (if any) to bring the tanker to atmospheric pressure.

3. Loosen access port/cover bolts and remove port/cover.

4. If no access port/cover is available, unscrew cap of top opening.

5. Insert a decontaminated sampling device into tanker slowly to allow stratified content (if any) to fill the sampler.

6. Retrieve the sampling device and wipe it with a disposable absorbent pad (place the pad in appropriate container).

7. Transfer the sample(s) into appropriate containers.

8. Repeat Step 5 until enough sample volume is obtained, as required.

9. Cap the sample container tightly and place in container carrier, make sure sample has been labeled and identified.

10. Replace cap or access cover and secure.

If sample collection from the tanker bottom valve is required (if the top port is inaccessible), the following additional steps will be included:

1. Make sure that sampling is carried out on the wastewater storage pad.

2. Place visqueen and sorbent pads beneath the valve area to collect any spills or leakage.

3. Place sample container beneath the valve.

4. Open valve slowly to ensure a slow, controlled flow of material.

5. After obtaining enough material, close valve securely.

6. Cap the sample container tightly and place in container carrier. Make sure sample has been labeled, identified, and secured.

7. Check valve for any signs of leaking. If leaking is not observed, pick up visqueen and sorbent pads, and place in appropriate container.

2.3 Other Sampling Activities

The Sampling Team Leader will be responsible for recording all pertinent information into the sample logbook. At a minimum this will include the following:

- Sample location
- Sample number
- Material phase (i.e., solid, liquid, sludge, etc.)
- Sample time

- Sampler's initials
- Other observations

The above is in addition to other entries made at the start of each work day. Once sampling has been completed, the Sampling Team Leader will be responsible for delivering the samples to the sample receiving area at the decontamination pad. The Sampling Team Leader will then complete a chain-of-custody form and assist in readying the samples for shipment. This will involve documentation of sample numbers, date, time, and preservatives, as appropriate, as well as packing the "coolers" for shipment. Should there be an insufficient number of samples or some other reason for not readying samples for shipment, samples will be stored in the appropriate preservative until such time as they will be shipped.

2.4 Sample Types and Analyses

Sample types, quantities, and analytical requirements are presented in Table 2-1.

TABLE 2-1

SUMMARY OF FIELD SAMPLING AND ANALYSIS

Waste Media	Phase	Number of Samples	Sampling Device	Sample Container	Sample Preservation	Holding Time	Analysis	Method Reference
Soils (Bulk Pile)	Solid	1	Trowel/Trier	(4) 16 oz. wide-mouth glass jars	Ice to 4°C	---	Paint Filter Liquids Test	40 CFR 268
						---	pH	40 CFR 268
						7 days	Total Cyanide	40 CFR 261
						7 days	Ignitability	SW-846 Method 1010, 1020
						7 days	Corrosivity	SW-846 Method 1110
						7 days	Reactivity - Cyanide/Sulfide	SW-846 Method 7.3.3.2, 7.3.4.2
						7 days	TCLP Extraction (D001-D043)	SW-846 Method 1311
						7 days extract 40 days analyze	PCBs	SW-846 Method 8080
Bulked Liquid Waste (Tanker)	Liquid	1	Stainless Steel Bailer/Open End Sampler	4 liter amber jug	Ice to 4°C	7 days	TCLP Extraction (D001-D043)	SW-846 Method 1311

3.0 SAMPLING EQUIPMENT DECONTAMINATION

3.1 General

The following describes standard operating procedures for the decontamination of equipment and tools that may come into direct contact with a field sample intended for analytical analysis. This procedure only addresses the decontamination of equipment as it pertains to the chemical integrity of samples for analysis and is not intended for use in health and safety decontamination of personnel, materials, and equipment that may become contaminated during field operations.

3.2 Applicability

Decontamination of all analytical devices, sampling tools, and storage equipment that may come into direct contact with a field sample are necessary in order to achieve analytical results that are representative of true field conditions.

3.3 Procedures

All equipment will be considered contaminated unless determined otherwise. In order to provide consistency to the decontamination procedure, a designated sampling team crew member will be responsible for equipment decontamination. Similarly, it is desirable to decontaminate all the equipment necessary for a field task in the laboratory prior to mobilization. In this way, field decontamination will be limited.

3.3.1 Decontamination Equipment List

The following equipment is needed for equipment decontamination:

- Clean disposable rubber gloves
- Wastewater container (drum)
- Clean water spraying device

- Clean brushes
- Plastic garbage bags
- Deionized/distilled water (DI water)
- Clean buckets and other containers, as needed (small plastic swimming pool)
- Plastic ground sheet (Visqueen)
- Aluminum foil
- Package labels and pen
- Potable water, warm if available
- Steam cleaner (optional)
- Non-phosphate detergent

Decontaminated equipment not intended for immediate use may be placed in plastic bags and sealed. All handling of decontaminated equipment will be performed using disposable rubber gloves. Care will be exercised in the storage of decontaminated equipment. Sampling personnel will avoid solvents, greases, oils, gasoline, water, dusts, and other potential sources that might contaminate the equipment before use.

4.0 SAMPLE HANDLING AND TRACKING

4.1 Sample Identification

Each sample collected will be assigned a unique identification number and placed in an appropriate sample container. Each sample container will have a sample label affixed to the outside with the date, time of sample collection, site name, type of sample, and sampler's name recorded on the label. In addition, this label will contain the sample identification number, analysis required and chemical preservative added, if any. All documentation will be completed in waterproof ink.

The sample identification number will be a unique alphanumeric code which will identify the project site, sample location, sample type, and sample number. The sample ID for specific locations will have the following for group identifiers:

Site Code - Sample Location - Sample Type - Sample Number

The alphanumeric code for each sample will initiate with the three-letter project site code: ECC.

The sample type identifiers will be as follows:

- TK - Tanker Content
- S - Soils (Bulk)

For example, the sample from the tanker shall be identified as:

ECC-TK - 01

4.2 Field Documentation

Field notebooks will be maintained by the Sampling Team Leader to record all data collecting activities performed at the site. Entries will be as descriptive and detailed as necessary so that a particular situation can be reconstructed without reliance on the collector's memory.

At a minimum, entries will consist of the following:

- Date
- Start date
- Weather
- Field personnel present
- Signature of the person making the entry
- Type of activity conducted
- Sampling location
- Sample identification number
- Description of depth of sampling point
- Type of sample (matrix)
- Pertinent field observations

All measurements made and samples collected will be recorded. All entries will be made in indelible ink. No erasures will be permitted. If an incorrect entry is made, the data will be crossed out with a single strike mark and initialed. Entries will be organized into easily understandable tables, if possible.

4.3 Chain-of-Custody

To maintain and document sample possession, the following chain-of-custody procedures will be followed. A chain-of-custody record will be completed once the samples are brought to the on-site sample receiving area. This record will include, but not be limited to, the following information:

- Project name and number
- Name(s) of sampler
- Sample identification number and location
- Date and time of collection
- Number and type of containers
- Required analyses
- Preservatives
- Courier
- Signatures documenting change of sample custody

Chain-of-custody forms will accompany any and all samples which are shipped off-site. When transferring possession of the samples, the individuals relinquishing and receiving the samples will sign, date, and note the time of transfer on the record. A commercial delivery service (for example, Federal Express) will be identified by company name only. Additionally, the samples will remain in the physical possession of the person assigned to the sample until they are shipped to the laboratory or will be placed in a locked storage facility prior to shipping. The original chain-of-custody record will accompany the sample to the analytical laboratory and will be returned to the Remedial Contractor with the analytical results. A copy of each record will be placed in the project file.

4.4 Sample Packaging and Shipping

Samples will be shipped as environmental samples according to applicable guidance documents and DOT regulations.

4.4.1 Environmental Samples

Sample packaging and shipping procedures are described below:

- Secure sample bottle lids with strapping tape or evidence tape. Check that sample label is securely attached.
- Mark volume level on bottle with grease pencil.
- Place about 3 inches of inert cushioning material such as vermiculite in bottom of cooler.
- Place containers in cooler in such a way that they do not touch.
- Put VOA vials in Ziploc bag and place them in the center of the cooler.
- Pack bottles in loose ice or ice in plastic bags.
- Fill cooler with cushioning material.

- Put paperwork in plastic bags and tape to inside lid of cooler.

- Tape drain shut.

- After acceptance by Federal Express or shipper, wrap cooler completely with strapping tape at two locations. Do not cover any labels.

- Place lab address on top of cooler.

- Put "THIS SIDE UP" labels on all four sides and "FRAGILE" labels on at least two sides. ("FRAGILE" labels are optional for coolers not containing glass bottles.)

- Affix signed custody seals on front right and back left of cooler. Cover seals with wide, clear tape.